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## User Manual

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# 1. Production Introduction

Network DVR is a monitoring product that allows audio and video synchronized. It adopts embedded and micro processor, so system runs more steadily. This product integrates functions such as video & audio, network transmission, alarming management, etc. Meanwhile, it has the features of DVR and DVS. It can not only work alone, but also can be networked to a powerful security monitoring network. It is widely used in school, factory, supermarket, bank, traffic, water conservancy facilities, residential area, and warehouse department, etc.

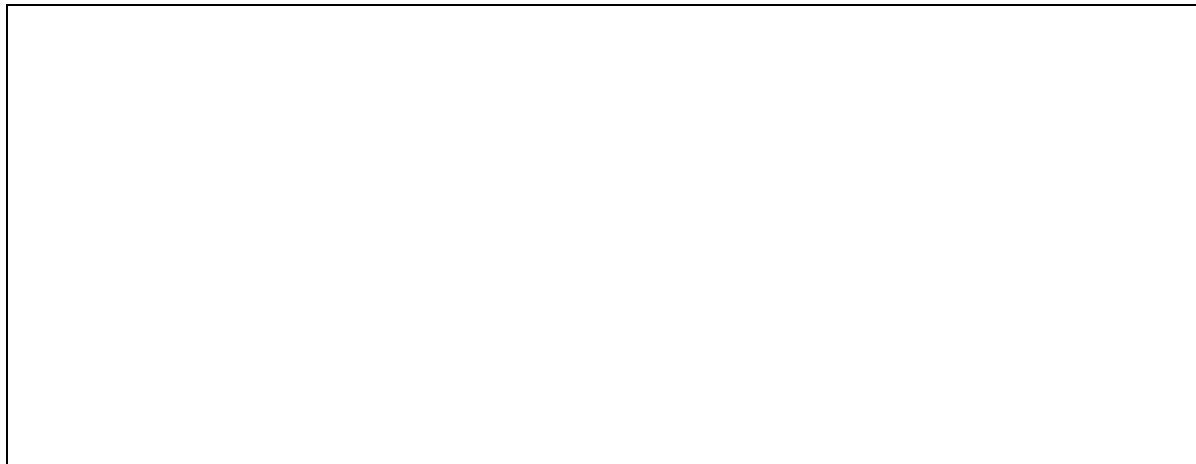
## 2. Installation

### 2.1. HDD Installation

1. Ensure Power supply has been disconnected, open the case cover;
2. Connect HDD data line, power line first , then fix the HDD in the case;
3. Install the cover, connect the power, which with adaptor, press the power switch;
4. Formatting the HDD (Please check details from : [System Setup—Peripheral—Storage Device—Formatting](#) );
5. Network DVR can normally make snapshot and video.

## 2.2. 2.1 Front panel

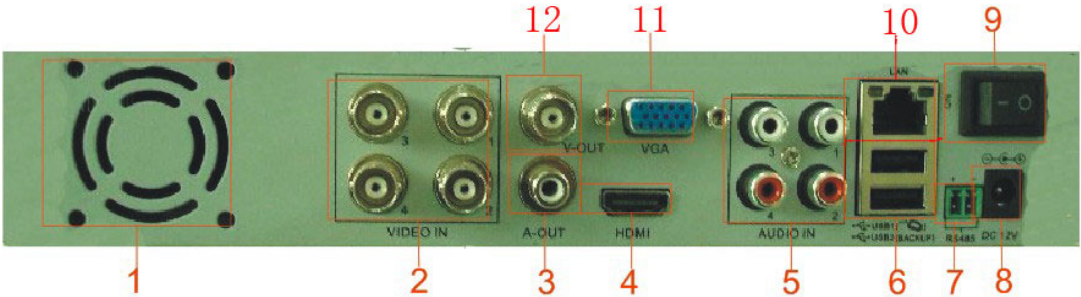
### The front panel of A series



- |      |        |                 |                 |           |
|------|--------|-----------------|-----------------|-----------|
| (1)  | Search | (2) PTZ         | (3) INFO        | (4) REC   |
| (5)  | Shift  | (6) Power       | (7) Direction   | (8) Menu  |
| (9)  | ESC    | (10) Play/Pause | (11) Back/Pause | (12) Fast |
| (13) | Play   | (14) Next       | (15) Back       |           |

2.2 2.2Rear panel

The rear panel of 4CH series






|    |           |    |             |    |              |
|----|-----------|----|-------------|----|--------------|
| 1  | Fan       | 2  | Video Input | 3  | Audio Output |
| 4  | HDMI      | 5  | Audio Input | 6  | USB          |
| 7  | PTZ RS485 | 8  | DC 12V      | 9  | Power Switch |
| 10 | LAN       | 11 | VGA         | 12 | Video Output |




## 2.3. Remote Operation

| No.         | Name           | Description  |           |      |       |            |              |               |             |      |     |
|-------------|----------------|--|-----------|------|-------|------------|--------------|---------------|-------------|------|-----|
| 1           | POWER          | Press for about 3-5 seconds to shut down the DVR.  |           |      |       |            |              |               |             |      |     |
| 2           | DEV            | Device match ID, can make the Remote and DVR one-to-one control, take 【4.6.3.2 Device No.】 for reference.  |           |      |       |            |              |               |             |      |     |
| 3           | No. Key        | 1.can make the channel full screen<br>2.can input numbers and English character.   |           |      |       |            |              |               |             |      |     |
| 4           | ALL            | Switch to multi-channels mode  |           |      |       |            |              |               |             |      |     |
| 5           | MENU           | Press this key , it will recycling show Right Click Menu, Main Menu and Status Menu  |           |      |       |            |              |               |             |      |     |
| 6           | ESC            | Close the upper operation interface;   |           |      |       |            |              |               |             |      |     |
| 7           | Direction Keys | 1. To simulate mouse moving;<br>2. Select PTZ channel, while no interface can make PTZ turning.<br>OK is confirm/select function   |           |      |       |            |              |               |             |      |     |
| 8           | FN             | Popup system settings screen   |           |      |       |            |              |               |             |      |     |
| 9           | Playback Key   | In turns: <table border="1"> <tr> <td>Play/back</td><td>Play</td><td>Pause</td></tr> <tr> <td>Frame play</td><td>Fast Forward</td><td>Fast Backward</td></tr> <tr> <td>Play Slowly</td><td>Stop</td><td>REC</td></tr> </table> | Play/back | Play | Pause | Frame play | Fast Forward | Fast Backward | Play Slowly | Stop | REC |
| Play/back   | Play           | Pause  |           |      |       |            |              |               |             |      |     |
| Frame play  | Fast Forward   | Fast Backward  |           |      |       |            |              |               |             |      |     |
| Play Slowly | Stop           | REC  |           |      |       |            |              |               |             |      |     |
| 10          | PTZ            | ZOOM+/-: Adjust PTZ camera lens distance;<br>Cruise: open/close cruise line  |           |      |       |            |              |               |             |      |     |
| 11          | SHIFT          | Switch between English uppercase letters and lowercase letters   |           |      |       |            |              |               |             |      |     |

## 2.4. Previewing window Icon Description

| Icon   | Description  |
|--|--|
|           | Means recording  |
|           | Means client-end is linking this channel.                  |
|  (Yellow) | means that this channel is set alarm, but is not triggered |



|   |   |
|---|---|
|  (Red) | Means the alarm is triggered.             |
|        | Means this window voice monitoring close. |
|        | Means this window voice monitoring open.  |

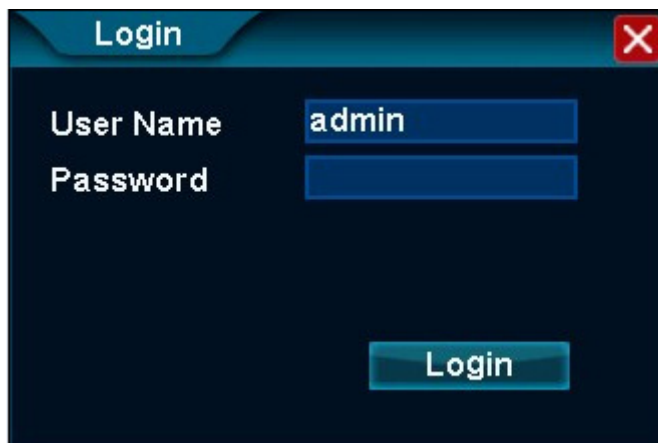
## 3. Fast Operation

### 3.1. Login

#### 3.1.1. Normal Login

After starting system, it will popup [Login] screen, after user login can make other operation.

Remarks: If cancel [System Setup/General/General/Display Wizard] function, the login prompt won't given unless users operate the DVR.



Steps:

1. [User Name] input default user name 'admin';
2. [Password] is empty, that is nothing input;
3. Single click [Login], then finish login operation.

Remarks: If login failure for 3 times, mouse will be locked for 10 seconds, DVR will alarm until login successfully .

### 3.1.2. Temporary Login

If forget user name and password and make login failure, can use temporary login.

Steps:

- a) Error login again, note [Errcode],
- b) Contact with customer service, they will tell a temporary user name and password.



## 3.2. Menu Operation

**Menu Operation** is functions at [Right Click Menu] and [Main Menu],in order to make operation more easily.

Menu function as follows:



**Right Click Menu:** System Setup, View Layout , Video Adjust, PTZ, Clients, Snapshot, Photos, Record Setup, Playback, Clear Alarm



**Main Menu:** : System Setup, View Layout(3 layout), Sequence Interval, Zoom, Video Adjust, PTZ, Snapshot, Photos, Record Setup, Playback, Shutdown.

### 3.2.1. View Layout

**Function Location:** Right Click Menu:



Main Menu:

**Function Summary:** while previewing, it can adjust screen distribution mode, can choose View1, View2 (Picture in Picture), View4, etc.

#### Function Introduction:

| Mode                             | Screen No. | Picture Changes            | Display Order               | Full Screen  | Remark  |
|----------------------------------|------------|----------------------------|-----------------------------|--------------|---|
| 1View                            | 1          | Select 'Channel No.'       | 1, 2, 3...16                | /            | /   |
| 2View<br>(Picture in<br>Picture) | 2          | Click 'Picture in Picture' | 1+2, 3+4...<br>13+14, 15+16 | Double click | Press on the small picture<br>for a little long time , then<br>can drag the picture |
| 4View                            | 4          | Click 'View4'              | 1~4, 5~8,<br>9~12, 13~16    | Double click | /   |

### 3.2.2. Sequence Interval




**Function Location:** Main Menu:

**Function Summary:** [Sequence interval] can show the previewing screen in turns, after finishing Sequence Interval, the screen layout will be the same with that before this function.


**Steps:**



1. Single click  at main menu to start Sequence Interval function ;
2. Setup how time interval ;

3. Single click [OK], then start 'Sequence Interval'



4. Single click  button, can stop Sequence interval function.
- 5.

### 3.2.3. Video Adjust



**Function Location:** Right Click Menu:

Main Menu:



**Function Summary:** can setup different video effects during different time range.  
For Example: Session1 can setup as Day effect, Session2 setup as Night effect.

#### **3.2.3.1. Session1**



**Steps:**

1. From Right Click Menu or Main Menu, Single click video Adjust Icon;
2. Select channel need adjusting ;



3. Mode select [Session 1], setup the effective time range;  
[Remarks: Session 1 default as the whole day](#)
4. Manually Adjust [Contrast, Chroma, Hue, Sharpness] ;  
[Remarks: Also can single click \[Standard, Soft, Bright\] for speedy settings.](#)
5. Single Click [Save] to take effect.  
[Remarks: \[Copy\] can copy this setup to all channels.](#)

#### 3.2.3.2. Session 2

**Steps:**

Setup steps of Session2 is the same with Session1.

[Remarks: change Session2 valid time range into Night \(for example 17:30~06:00\), it will be night mode.](#)

#### 3.2.4. PTZ

**Function Location:** Right Click Menu:



Main Menu:



**Function Summary:**

1. [PTZ Adjust] can adjust PTZ lens direction, Iris, Focus, Zoom, Speed.
2. [Preset positions Cruise] can adjust Preset Positions, Cruise Line, Aux.

##### 3.2.4.1. PTZ Adjust



#### PTZ Adjust Steps:

1. Right Click Menu or Main Menu select [PTZ Control];
2. Change Channel No. into PTZ Channel;  
[Remarks: After selecting, it will be full screen showing; single click \[16 View\] can get multi-screen;](#)
3. Change PTZ moving speed;
4. Single click up/down/right/left button to adjust PTZ lens direction;  
[Remarket: \[Auto\] can make PTZ Horizontal roll.](#)
5. Single click [Iris/Focus/Zoom] can adjust brightness, focus, and image resizing.

Single Click [More] enter '3.4.5.2 Preset point Cruise'

#### 3.2.4.2. Preset Point Cruise

Include Aux function, Preset, Patrol.

#### 3.2.4.3. Aux Function



1. Choose 'AUX' function No;
2. Single click [AUX OPEN] can open corresponding function, for example wiper;
3. Single click [AUX CLOSE] can close the function.

#### 3.2.4.4. Preset



1. Choose 'Preset No.' , for example :1;
2. Single click [Goto] can invoke the preset point.

#### 3.2.4.5. Patrol



1. Single click [Patrol] , PTZ enter cruising condition;
2. Single click [Stop] , PTZ stop cruising.

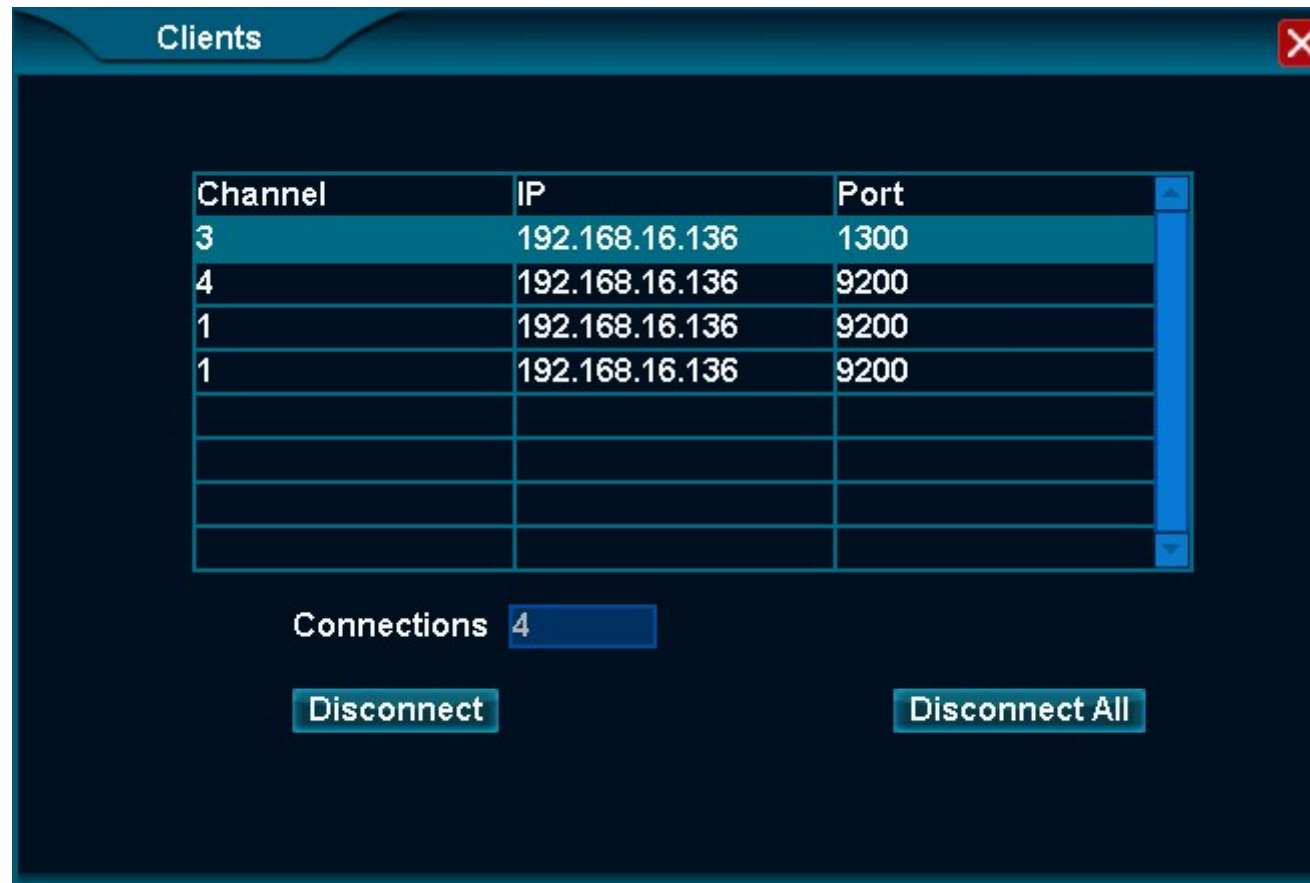
#### 3.2.5. Clients

**Function Location:** Right Click Menu:



**Function Summary:**

1. Count client-end numbers that connecting with the DVR;
2. Disconnect any connection, or disconnect all connections.



All client-end connection information: channel, IP, Port, and Connections all information can check here.

**Disconnect Steps:**

1. From the list, select any channel to connect;
2. Single click [Disconnect] , can disconnect the remote connection;
3. Single click [Disconnect All], can disconnect all remote connection.

### 3.2.6. Snapshot

Snapshot function includes [Snapshot], [Photos] two functions.

#### 3.2.6.1. Snapshot

**Function Location:** Right Click Menu:



Main Menu:



**Function Summary:** : can make snapshot of object image and store into the HDD.

**Steps:**

1. Right click Right Click Menu or Main Menu [Snapshot];  
*Remarks: enter snapshot condition; the mouse icon will change into camera icon.*
2. Move into snapshot screen, single left click can get the snapshot, check the picture for prompt;
3. Right click can cancel snapshot condition.

#### 3.2.6.2. Photos

**Function Location:** Right Click Menu:



Main Menu:



**Function Summary:**

1. Can query the snapshot stored in the DVR, include Manual Snapshot, Alarm Snapshot, Record Snapshot.
2. Can copy the snapshot into USB disk.



### 3.2.6.3. Snapshot Query



**Steps:**

1. [Search Type] choose snapshot type, default is All Picture;
2. [Channel] choose the channel for snapshot, default is All channels;
3. [Start] ~[End] is snapshot time range (Longest is 1 month), default is 'today' ;
4. [Search] button, single click, then the right list can show the eligible snapshot.

[Remarks: single click can show the snapshot contents.](#)

#### 3.2.6.4. Picture Backup

**Steps:**

1. Connect FAT32 format U disk into the DVR USB port;
2. Single click to choose a picture and it can only choose one;
3. Single click [Backup to USB], after the prompt shown backup successfully can take away the U disk.

#### 3.2.7. Record Function

Record function includes:

1. **Record Setup:** open/close Manual Record (default is open ), open/close Scheduled Record;
2. **Playback:** Query, Playback, Backup.

##### 3.2.7.1. Record Setup

**Function Location:** Right Click Menu:



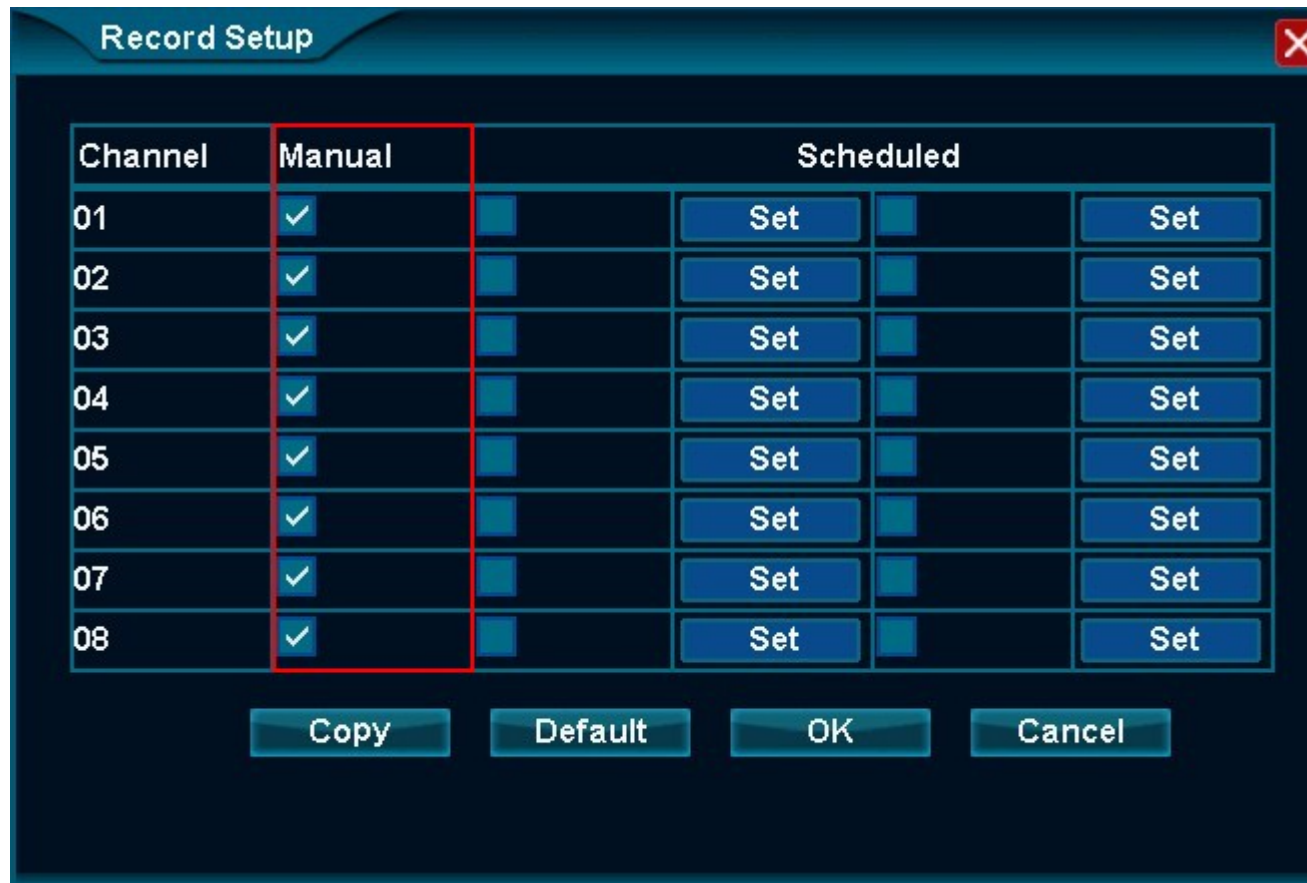
Main Menu:



















**Function Summary:**

1. Can open/close each channel Manual Record;
2. Can open/close each channel Scheduled Record?

**3.2.7.2. Manual Record**



The image shows a 'Record Setup' dialog box with a dark blue background. At the top, there is a title bar with the text 'Record Setup' and a red close button (X) on the right. Below the title bar is a table with 8 rows and 6 columns. The first column is labeled 'Channel' and contains values 01 through 08. The second column is labeled 'Manual' and contains checkmarks. The third column is labeled 'Scheduled' and contains a small blue square icon. The fourth column contains the text 'Set'. The fifth column contains a small blue square icon. The sixth column contains the text 'Set'. A red rectangular box highlights the 'Manual' column. Below the table are four buttons: 'Copy', 'Default', 'OK', and 'Cancel'.

| Channel | Manual |   | Scheduled |   |     |
|---------|--------|---|-----------|---|-----|
| 01      | ✓      |  | Set       |  | Set |
| 02      | ✓      |  | Set       |  | Set |
| 03      | ✓      |  | Set       |  | Set |
| 04      | ✓      |  | Set       |  | Set |
| 05      | ✓      |  | Set       |  | Set |
| 06      | ✓      |  | Set       |  | Set |
| 07      | ✓      |  | Set       |  | Set |
| 08      | ✓      |  | Set       |  | Set |

Copy Default OK Cancel

**Step I: Open Manual Record**

1. Right Click Menu or Main Menu .Select [Record Setup];
2. Select channel, and choose 'Manual' option;

Remarks: [Copy] can make the settings apply to all channels

3. Single click [OK] to open Manual Record ;

Remarks: Recording channel has the icon: , Manual Record default is open .

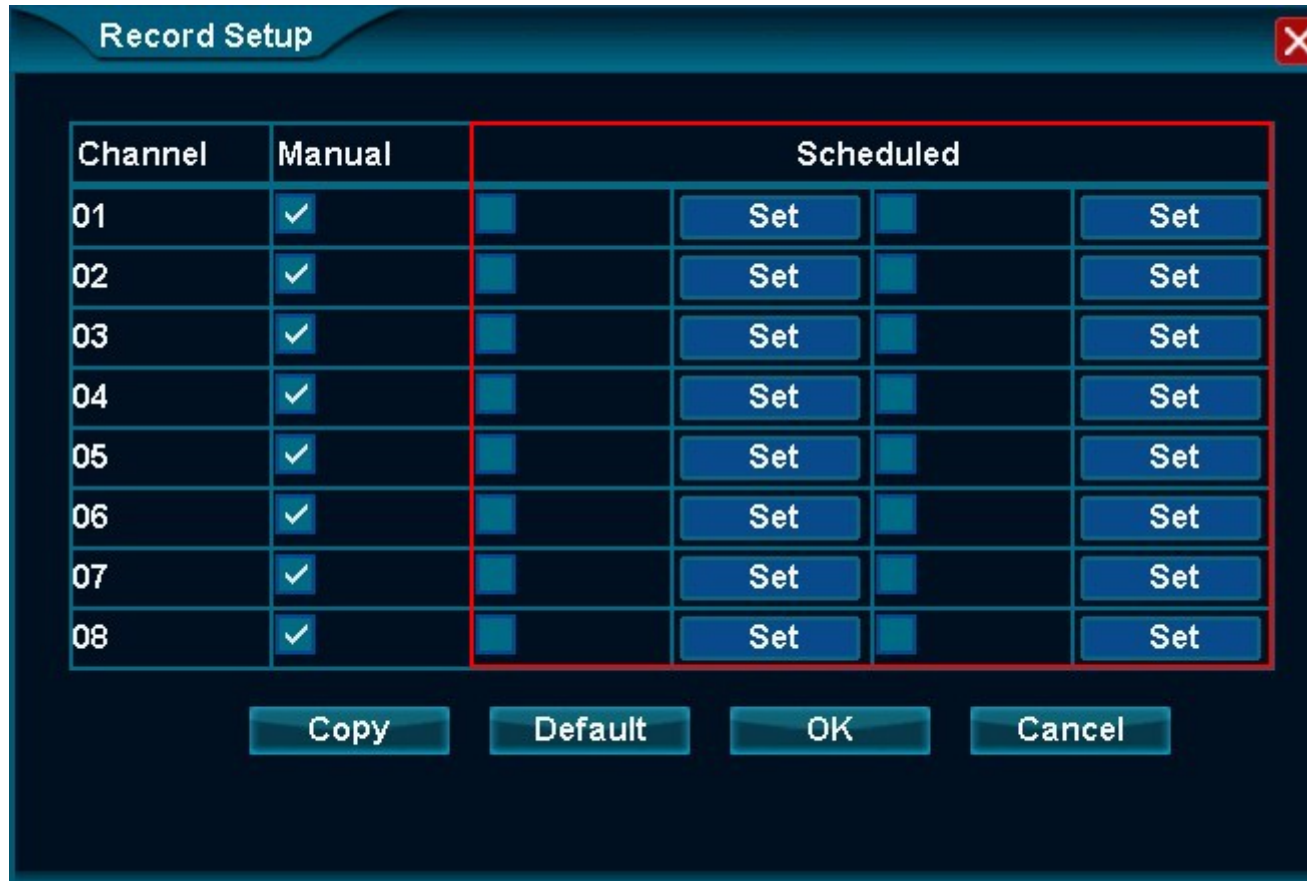
#### **Steps II: Close Manual Record**

1. Choose the channel, cancel 'Manual' Option;

Remarks: [Copy] can apply the settings to all channels.

2. Single click [OK] TO CLOSE Manual Record function.

#### **3.2.7.3. Scheduled Record**



The image shows a 'Record Setup' dialog box with a dark blue background and a red border. The title bar at the top is dark blue with the text 'Record Setup' in white and a red close button (X) on the right. The main area contains a table with 8 rows and 6 columns. The first two columns are 'Channel' and 'Manual'. The next four columns are grouped under the header 'Scheduled'. The 'Manual' column contains checkmarks for all channels. The 'Scheduled' section has two columns of checkboxes and two columns of 'Set' buttons. At the bottom, there are four buttons: 'Copy', 'Default', 'OK', and 'Cancel'.

| Channel | Manual | Scheduled                |     |                          |     |
|---------|--------|--------------------------|-----|--------------------------|-----|
| 01      | ✓      | <input type="checkbox"/> | Set | <input type="checkbox"/> | Set |
| 02      | ✓      | <input type="checkbox"/> | Set | <input type="checkbox"/> | Set |
| 03      | ✓      | <input type="checkbox"/> | Set | <input type="checkbox"/> | Set |
| 04      | ✓      | <input type="checkbox"/> | Set | <input type="checkbox"/> | Set |
| 05      | ✓      | <input type="checkbox"/> | Set | <input type="checkbox"/> | Set |
| 06      | ✓      | <input type="checkbox"/> | Set | <input type="checkbox"/> | Set |
| 07      | ✓      | <input type="checkbox"/> | Set | <input type="checkbox"/> | Set |
| 08      | ✓      | <input type="checkbox"/> | Set | <input type="checkbox"/> | Set |

Copy Default OK Cancel

**Step I: Open and Setup Scheduled Record**

1. Right Click Menu or Main Menu. Select [Record Setup];
2. Select channel, and choose 'Scheduled' option;

Remarks: [Copy] can make the settings apply to all channels

3. Single click [Set] to modify Scheduled Record time range;

Remarks: Scheduled Record can be divided into 2 time ranges.

4. Single click [OK] to OPEN Scheduled Record

Remarks: channel has the icon: .

#### 3.2.7.4 Playback

**Function Location:** Right Click Menu:



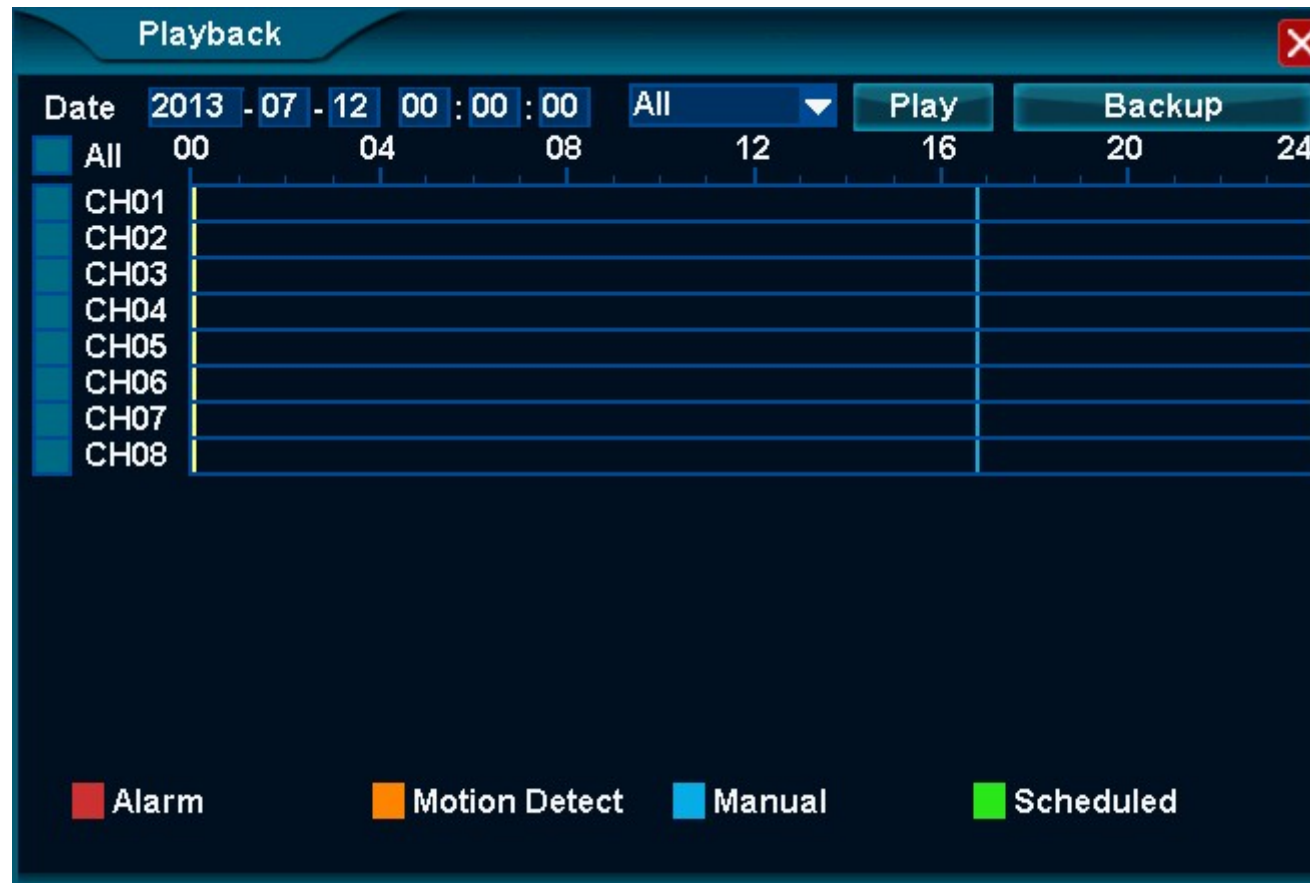
Main Menu:



**Function Summary:**

1. It can query, playback record file of any channel;
2. It can backup file into U disk.

#### **3.2.7.4.1 Query Playback**

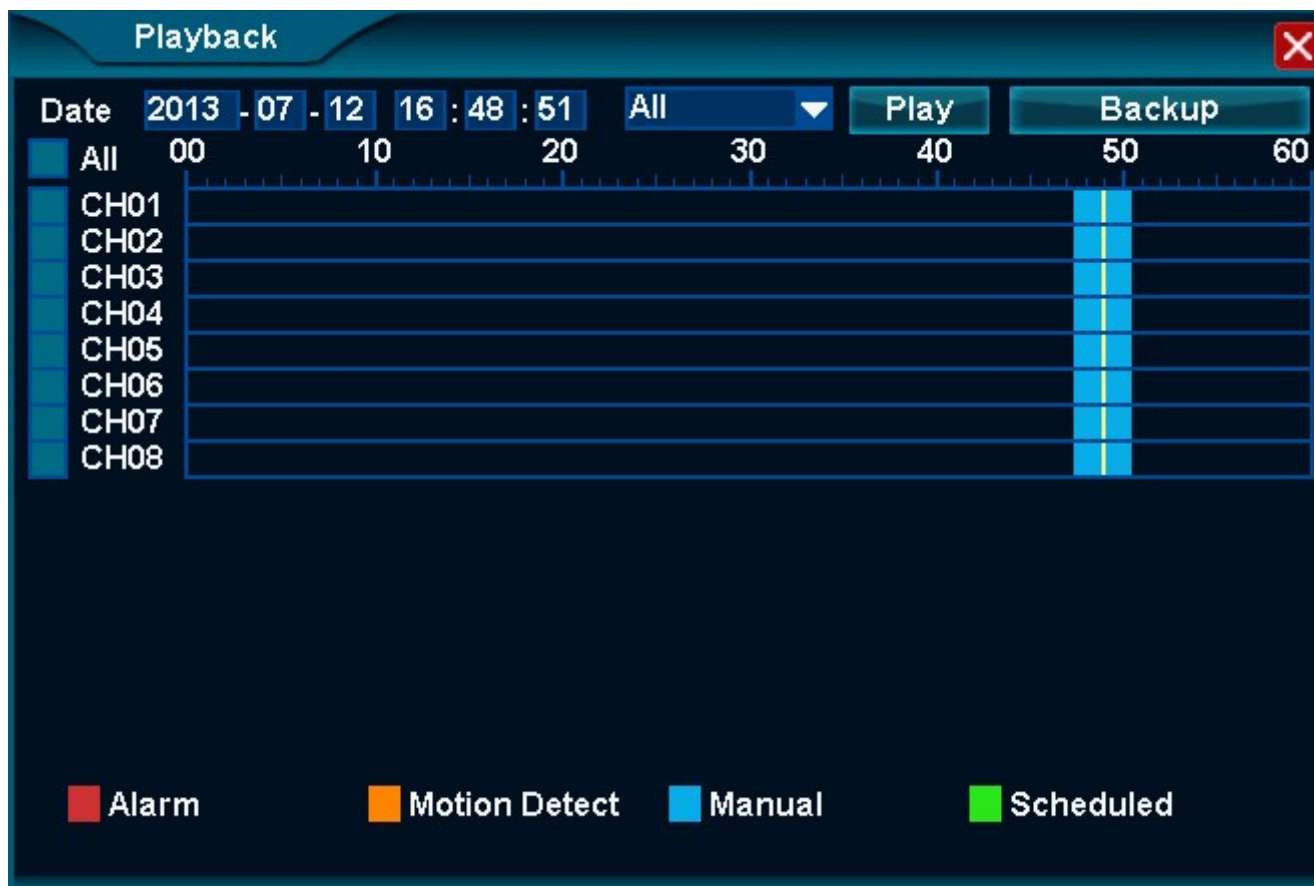
**Operation Steps:**

1. Right Click Menu or Main Menu[Playback] ;
2. Modify playback starting date and time



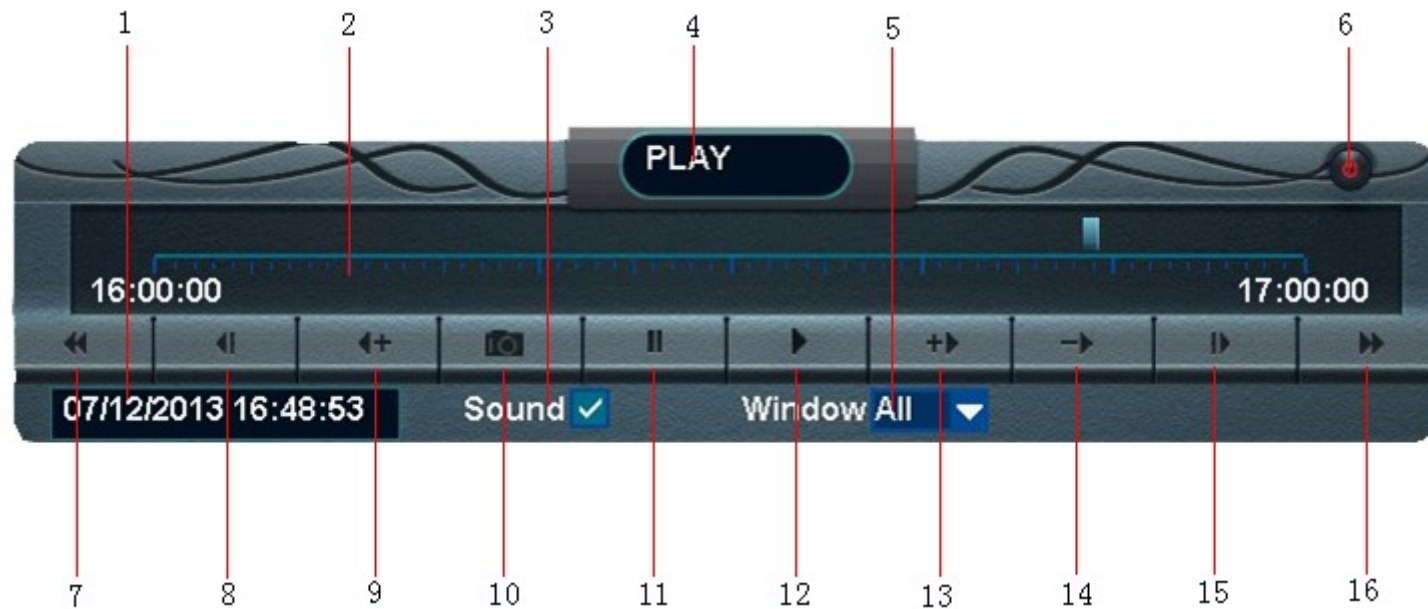
Remark: Also can click to choose playback position, double click open minute view as follows, double click again back to hour view.

3. Choose video type: Scheduled/ Manual/ Alarm/ Motion Detection ;
4. Choose playback channel , can multi-select or all select;
5. Single click [Play] button, can display the video.



### 3.2.7.4.2 Playback Adjusting

When playback, users can adjust the speed and progress.

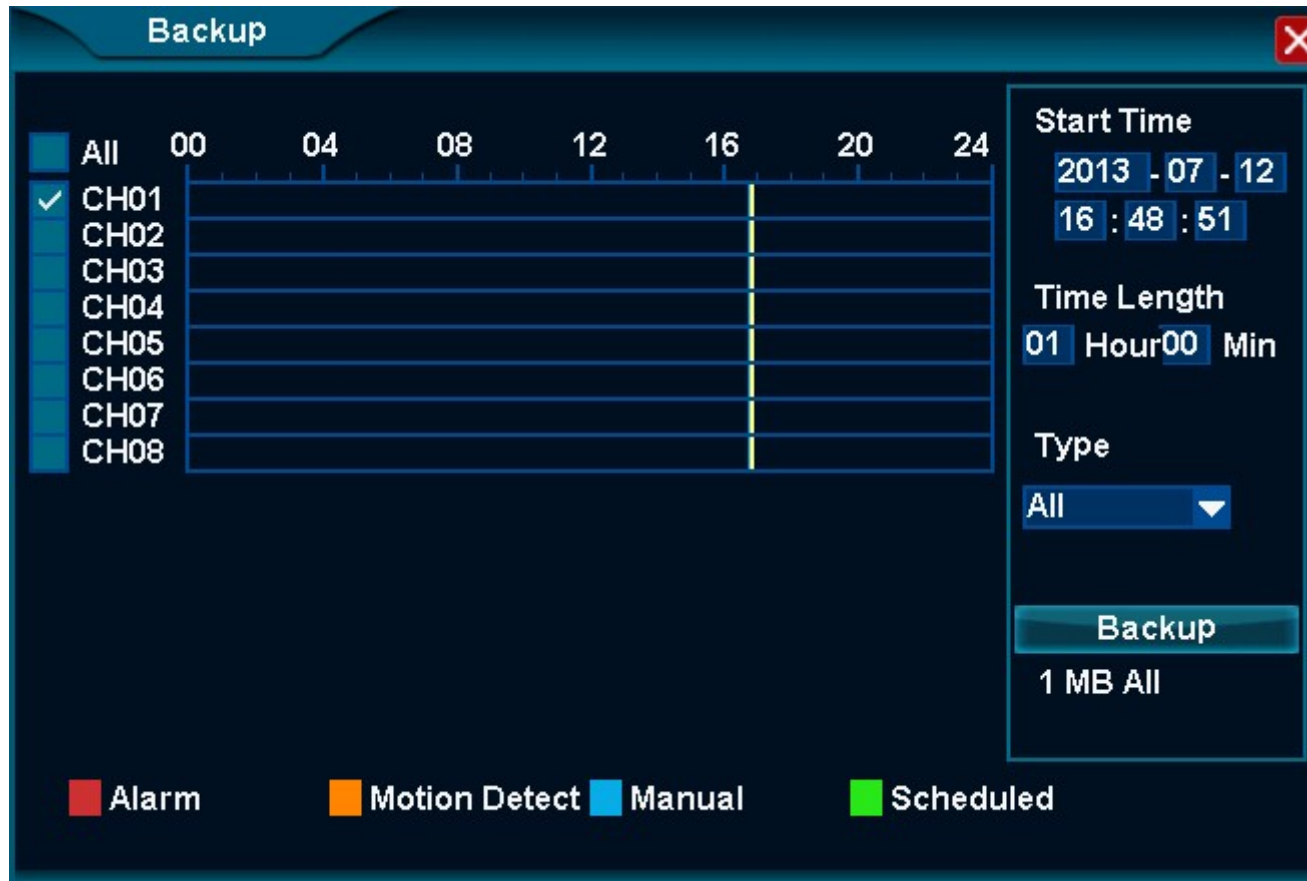


| Serial No. | Name          | Description           | Serial No. | Name          | Description  |
|------------|---------------|-----------------------|------------|---------------|--|
| 1          | Playback time | Current playback time | 9          | Fast Backward | Fast backward display, single click to switch X8/X16 |

|   |              |   |    |              |   |
|---|--------------|---|----|--------------|---|
| 2 | Progress Bar | Progress of the current playback file in 1 hour     | 10 | Snapshot     | Snapshot for object screen                                      |
| 3 | Sound        | Open/close sound playback                           | 11 | Pause        | Pause display   |
| 4 | Condition    | Playback Condition                                  | 12 | Display      | Display the video   |
| 5 | Window       | Choose the operation window                         | 13 | Fast Display | Accelerate display , single click to switch X2/X4/X8/X16        |
| 6 | Shutdown     | Exit the playback                                   | 14 | Slow Display | Decelerate display, single click to switch X1/2 X1/4 X1/8 X1/16 |
| 7 | A Hour Ago   | Choose the window and playback the video a hour ago | 15 | Single Frame | Each single click can go ahead 1frame                           |
| 8 | Backward     | Each single click chosen widow ,it will back up 2S  | 16 | Next a Hour  | Choose the window and display the video next hour               |

### 3.2.7.5 Backup

It can backup the record file into U disk.

**Operation Steps:**

1. Single click [Backup] , open the backup interface;
2. Modify the backup start time;

3. Modify the backup time range;
4. Choose Record Type, Scheduled/ Manual/Alarm/ Motion detection record;
5. Choose backup channel;
6. Single click [Backup] to backup the file selected into U disk;
7. Install the display plug-in, then can use Media Player to display the backup file.

### 3.2.8 Clear Alarm



**Function Location:** Right Click Menu:

**Function Summary:** can clear some channel or all channel Alarm effect.

**Operation Steps:**

1. Right click alarming channel, choose [Clear Alarm/ Current] can clear alarming of current channel;
2. Right click all channels, choose [Clear Alarm/ Clear All] can clear alarming of all channels.

### 3.2.9 Shutdown



**Function Location:** Main Menu:

**Function Summary:** can Logout, Shutdown and Restart.



## 4 System Setup

Function Location: Right Click Menu:



### 4.1 Functional Structure

| Category | Group   | Function Point  |
|----------|---------|---|
| General  | General | Language, NTSC/PAL, Transparency, VGA Resolution, Wizard, Speedy Function |
|          | Time    | Date, Time, Auto Synchronize Time, Time zone Setting                      |

|         |                  |   |
|---------|------------------|---|
|         | User             | Local user, Network User, Automatic Logout  |
| Channel | Preview          | Ch Name, OSD Position, Hide Video, Privacy Mask   |
|         | Stream           | Main Stream, Minor Stream   |
|         | Audio            | Audio Compress, Audio Monitoring, Bind with Video   |
| Network | Setting          | Dialing Setting, IP Setting   |
|         | Service          | WebCC, Bi-directional Talk  |
| Alarm   | Motion Detection | Motion Detection Alarm Setup, Alarm Output  |
|         | No Video         | Video Loss Alarm Setup, Alarm Output  |
|         | Alarm Device     | Alarm Device Alarm Input Setup, Alarm Output  |
|         | Alarm Task       | Motion Detection, No Video, Alarm Device, Start Time/ End Time Setting of Alarm input     |
|         | E-mail           | Alarming E-mail Server, Sender Setting, Receiver Setting                                  |
| System  | Log              | Log Query, Backup   |
|         | Maintenance      | Reboot Setup, Update, Reset Factory, Import Setting, Export Setting                       |
|         | Information      | Product Model, Serial Number, Software Version, Hardware Version<br>Software Release Time |
| Device  | Storage          | Storage device condition, Format  |
|         | PTZ              | PTZ Setting, Preset, Patrol   |
|         | Other Device     | Width of Monitor, Height of Monitor, Device ID, Main Display Device                       |



## 4.2 General

### Functions:

**General:** for example: Language, NTSC/PAL, Transparency, VGA Resolution, Display Device ID, Wizard, etc.;

**Time:** for example date format, Set Date/Set Time, Auto Synchronize Time, Time zone setting;

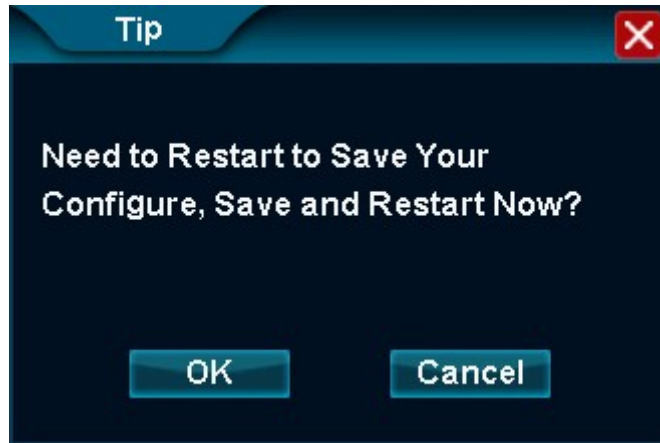
**User:** Local User, Network User Add/Delete/ Edit.

### 4.2.1.1 NTSC/PAL

**Function Location:** General—General—NTSC/PAL

**Function Summary:** change the current video standard, supports standard **PAL/NTSC**.

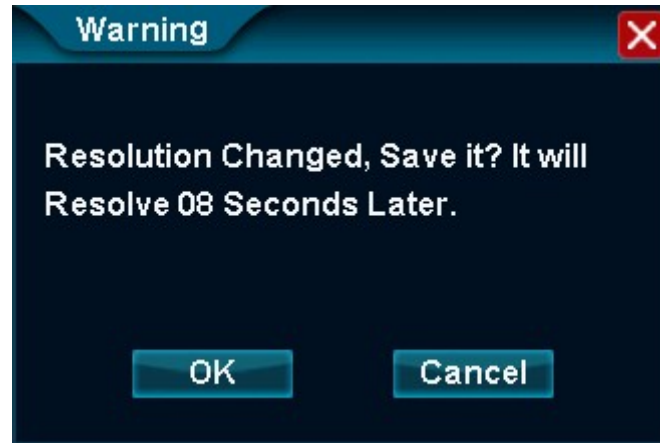
**Remark:** It takes effect after restarting.



#### 4.2.1.2 VGA Resolution

**Function Location:** General/General/VGA Resolution

**Function Summary:** Modify resolution of the DVR output to display.



Remarks: After modifying the resolution, if not confirm in 10 seconds, it will automatically cancel in order to avoid problem of display doesn't support large resolution

#### 4.2.1.3 Wizard

**Function Location:** General/General/Wizard

**Function Summary:** choose this function, while starting the DVR, it will display as startup

Remarks: click Wizard button can enter wizard screen at any time.

#### 4.2.1.4 Function Demo

**Function Location:** General/General/Function Demo

**Function Summary:** display as a demo, guide the user to make speedy setup

#### 4.2.2 Time

**Function Location:** General/Time

**Function Summary:** Setup system time, for example Set date, Set Time, Timezone Setting, Auto Synchronize Time, etc.



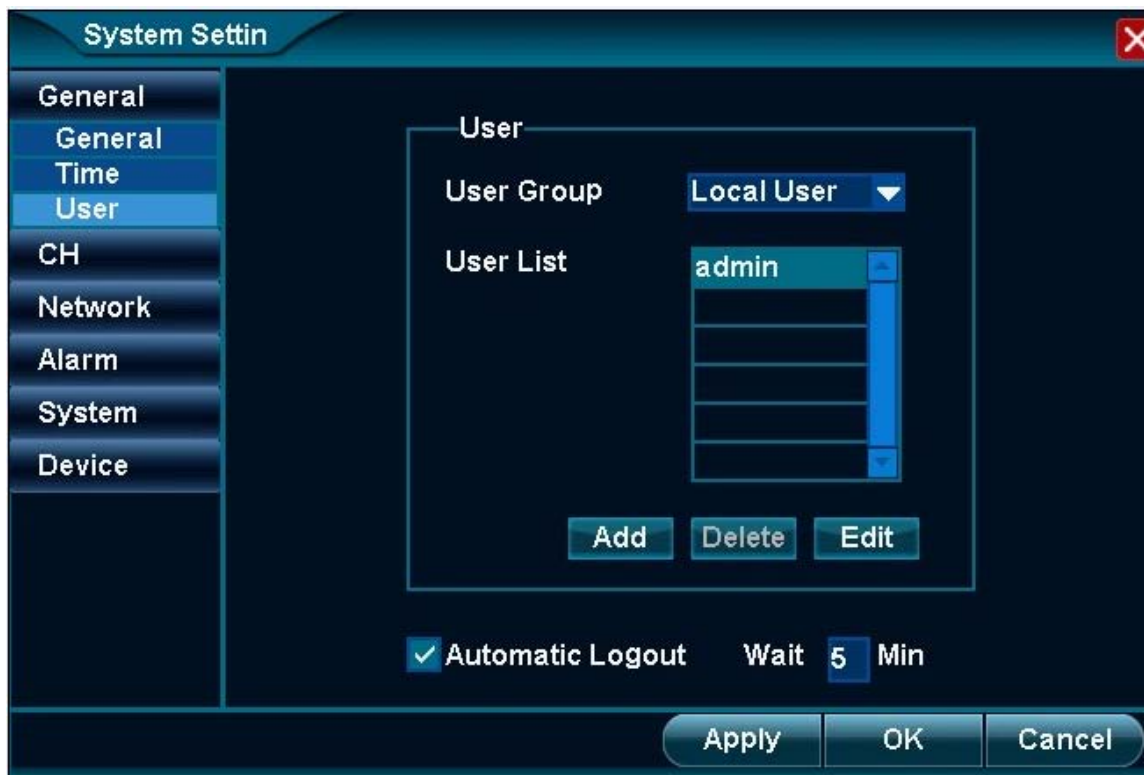
## **4.2.3 User**

### **4.2.3.1 Local User**

**Function Location:** General/ User/ Local User

**Function Summary:**

1. It allows local users login the DVR and make allowed operation;
2. It allows add/edit/delete local users.





The image shows a 'Local User' dialog box with a dark blue background and a teal header. The header contains the title 'Local User' and a red close button. The dialog has two text input fields for 'User Name' and 'Password'. Below these are two columns of checkboxes for permissions: 'Record Management', 'Clients', 'PTZ', 'Quit' on the left, and 'Snap Management', 'System Setup', 'Video Adjust', 'User Management' on the right. At the bottom, there are four buttons: 'All', 'None', 'OK', and 'Cancel'.

**Local User**

User Name

Password

|  |  |
|--|--|
| <input type="checkbox"/> Record Management | <input type="checkbox"/> Snap Management |
| <input type="checkbox"/> Clients           | <input type="checkbox"/> System Setup    |
| <input type="checkbox"/> PTZ               | <input type="checkbox"/> Video Adjust    |
| <input type="checkbox"/> Quit              | <input type="checkbox"/> User Management |



#### **4.2.3.1.1 Automatic Logout**

**Function Location:** General/ User/ Automatic Logout

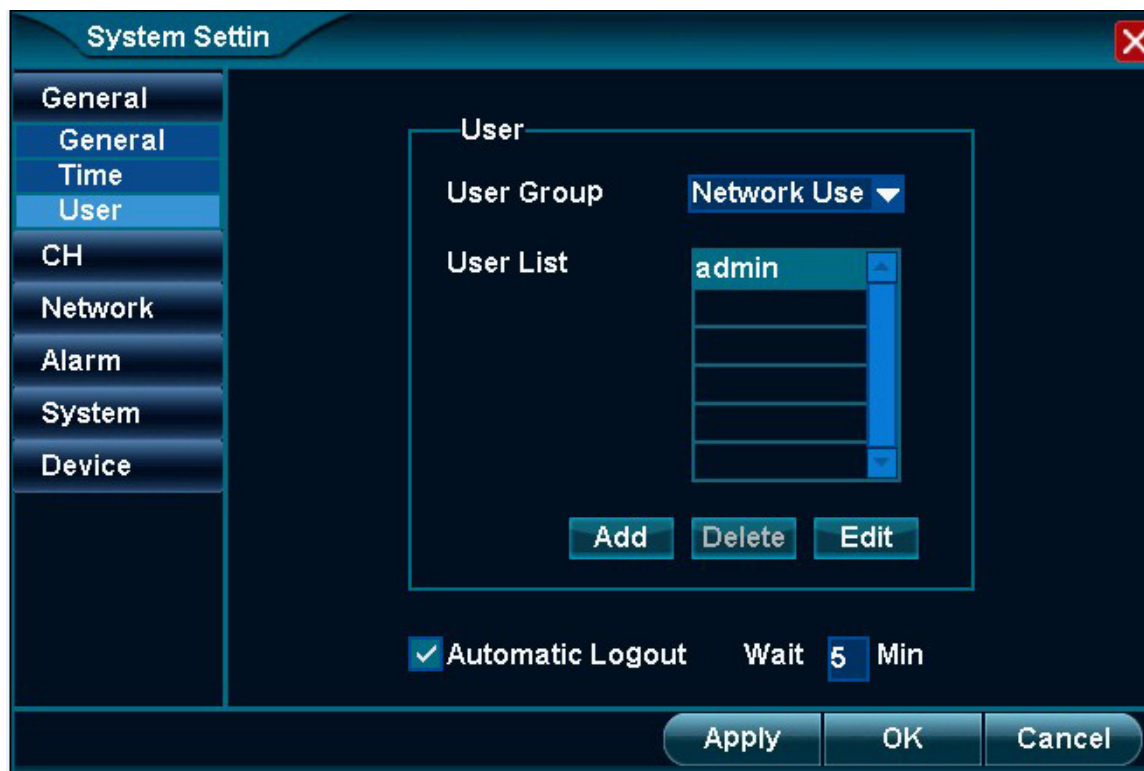
**Function Summary:**


1. As User operation upto the duration set, it will automatically logout (1-99 mins);
2. Users need to login again to continue the operation t, this function in order to improve the safety.

#### **4.2.3.2 Network User**

**Function Location:** General/ User/ Network User

**Function Summary:** while remote monitoring, this setting will be as the user name and password in client-end.





The image shows a 'Network User' dialog box with a dark blue background and a lighter blue header. The header contains the title 'Network User' and a red close button. The main area has two text input fields for 'User Name' and 'Password'. Below these are eight checkboxes arranged in two columns: PTZ, Playback, System Setup, Other, CH01, CH02, CH03, CH04, CH05, CH06, CH07, and CH08. At the bottom, there are four buttons: 'All', 'None', 'OK', and 'Cancel'.

**Network User**

User Name

Password

☐ PTZ ☐ Playback

☐ System Setup ☐ Other

☐ CH01 ☐ CH02 ☐ CH03 ☐ CH04

☐ CH05 ☐ CH06 ☐ CH07 ☐ CH08

## 4.3 Channel

Function: 1.**Preview setting**: Channel name, OSD position, Hide video, Privacy mark;

2.**Code stream setting**: Main code stream image size and code rate; minor code stream image size, kbps, fluency

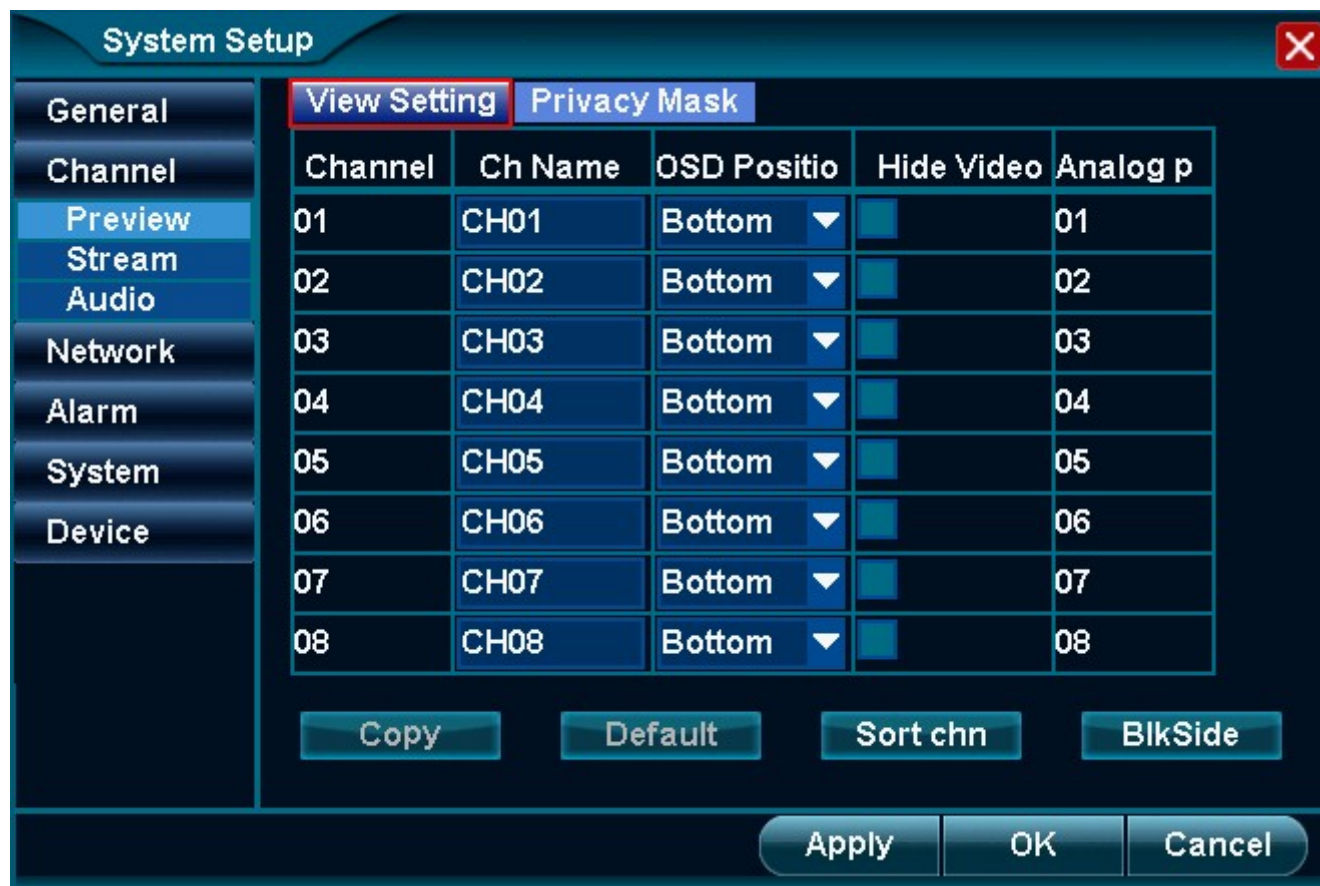
3.**Audio setting**: Audio compression, Audio monitoring

### 4.3.1 Preview setting

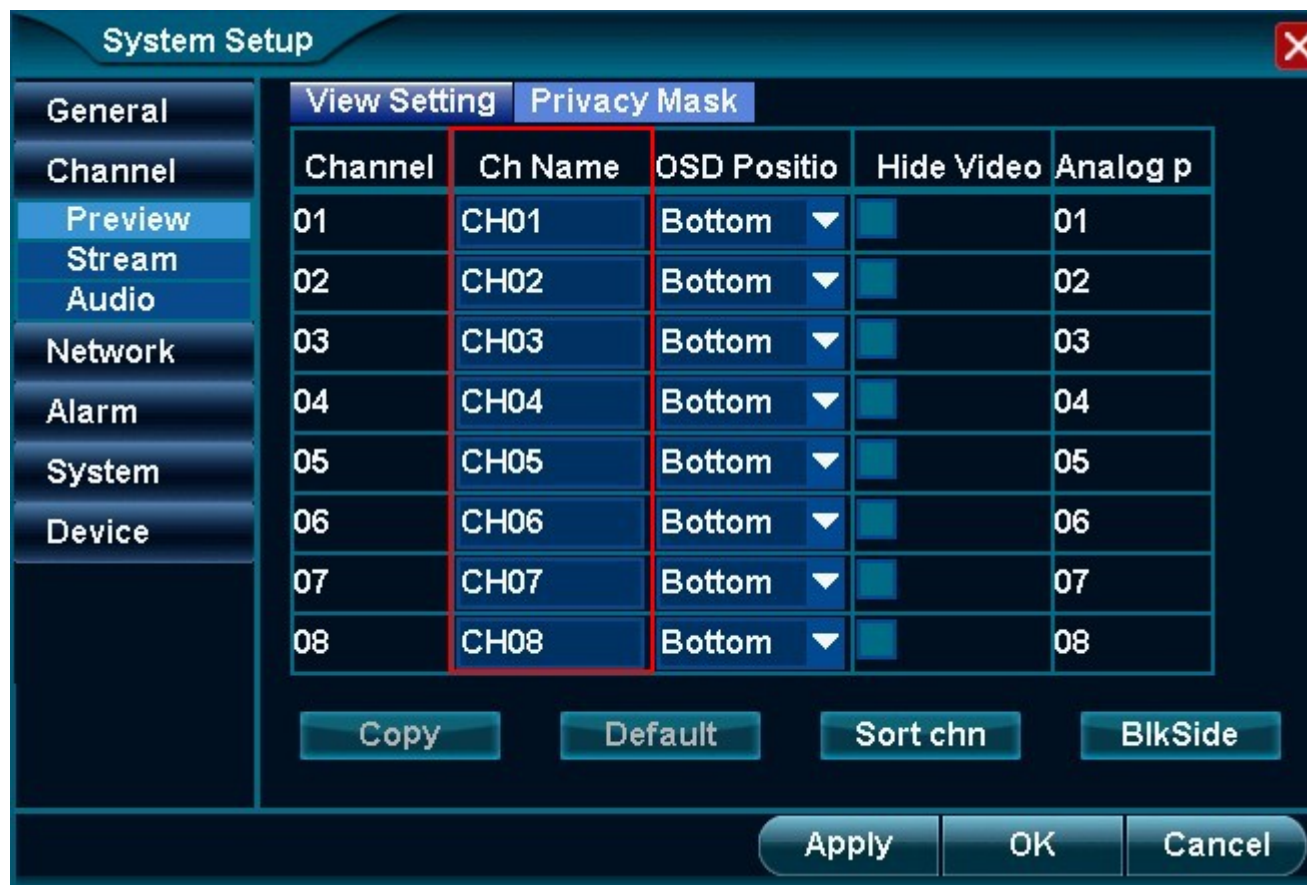
#### 4.3.1.1 Preview adjustment

**Function position**: Channel| Preview setting

**Function introduction**: 1.Modify channel name;  
2. Modify OSD position  
3. Hide video



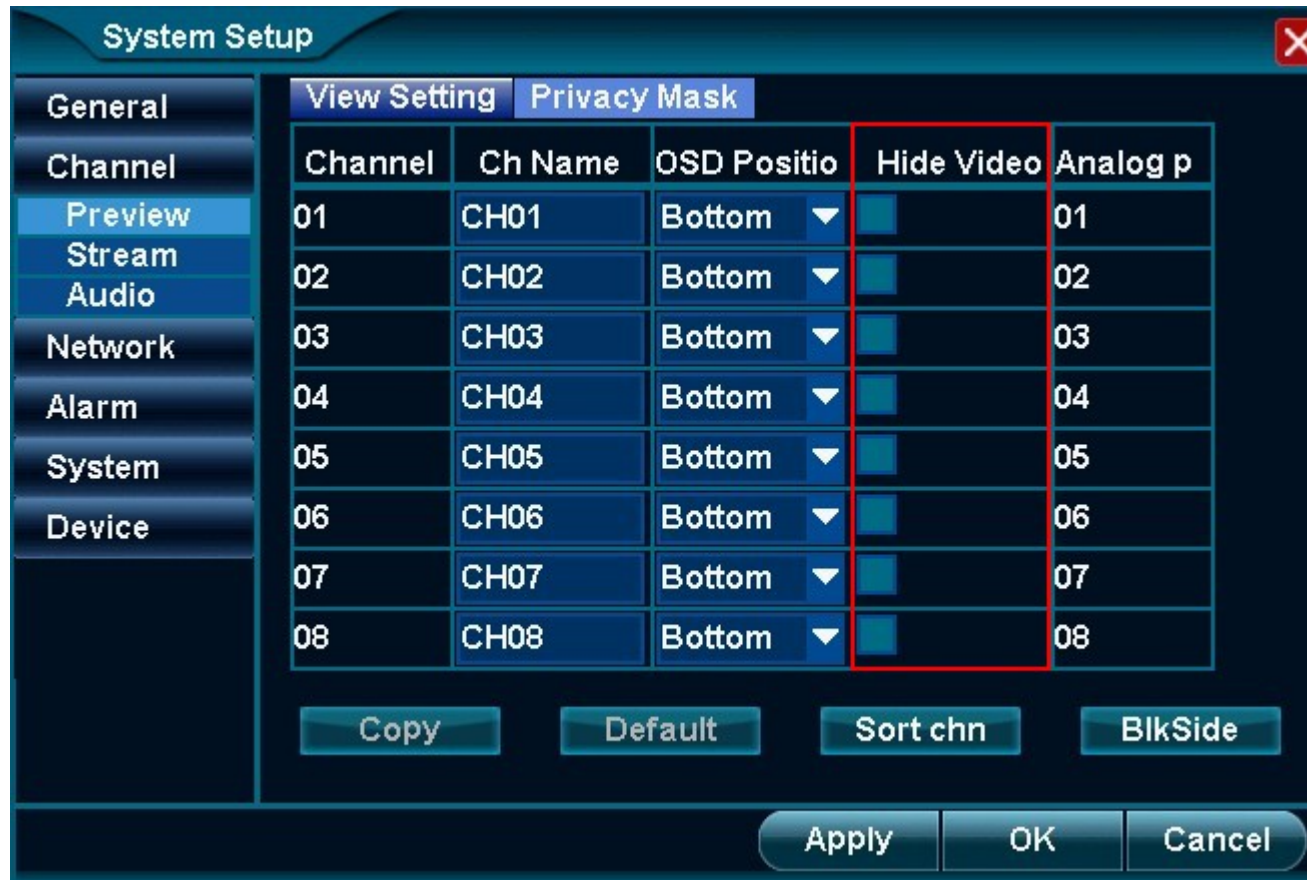
## 4.3.1.1.1 Modify channel name



## 4.3.1.1.2 Modify OSD position



## 4.3.1.1.3 Hide video



Steps:



1. Left click the box after “Hide Video”

Click **【Apply】** or **【ok】** ,then preview the selected channel, that has been hided。

## 4.3.1.1.4 Analog Port



Steps:

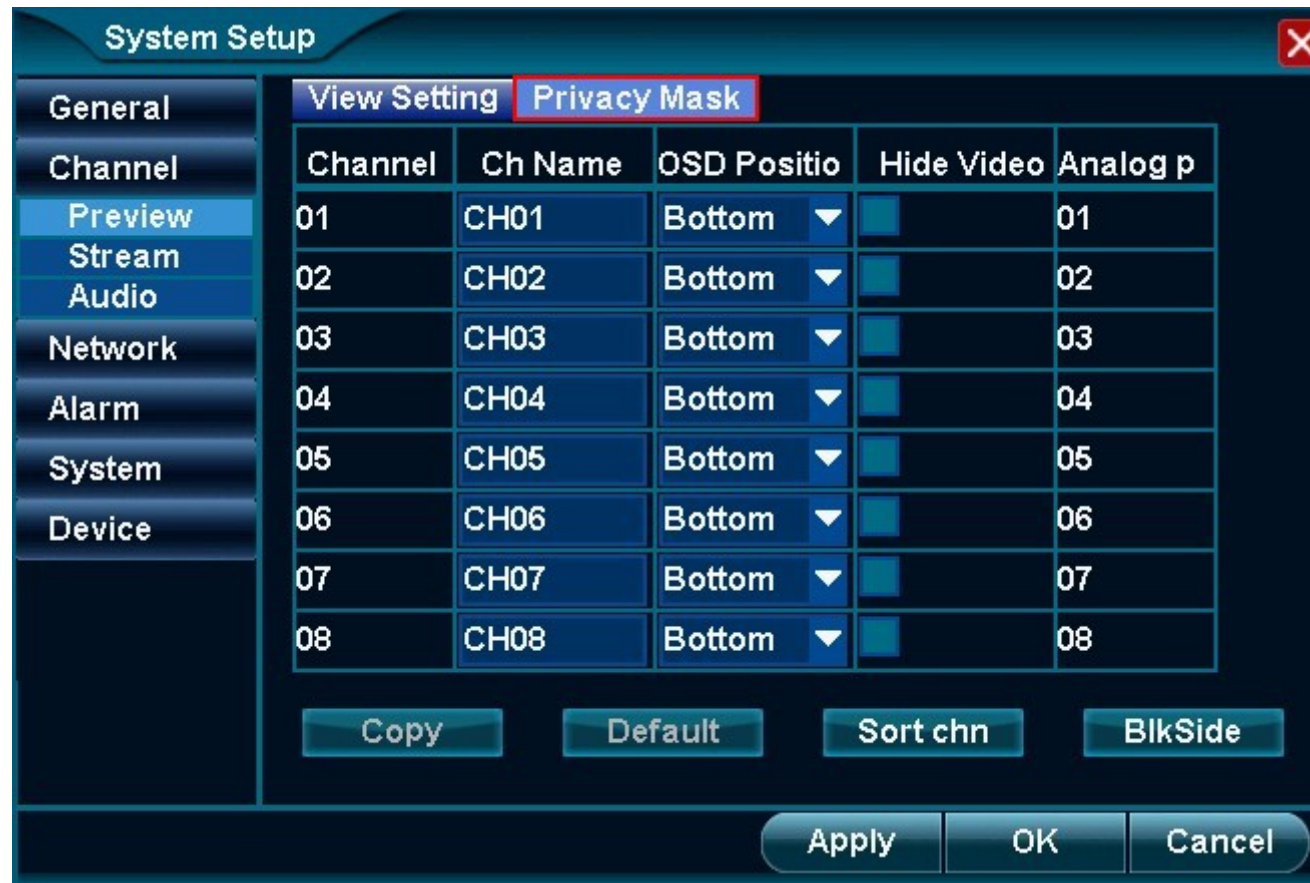
1. Left click the box after“Analog port”;

Click 【Sort chn】 Preview the channel 1,that show “Sort chn 1”,then drag the channel to sort

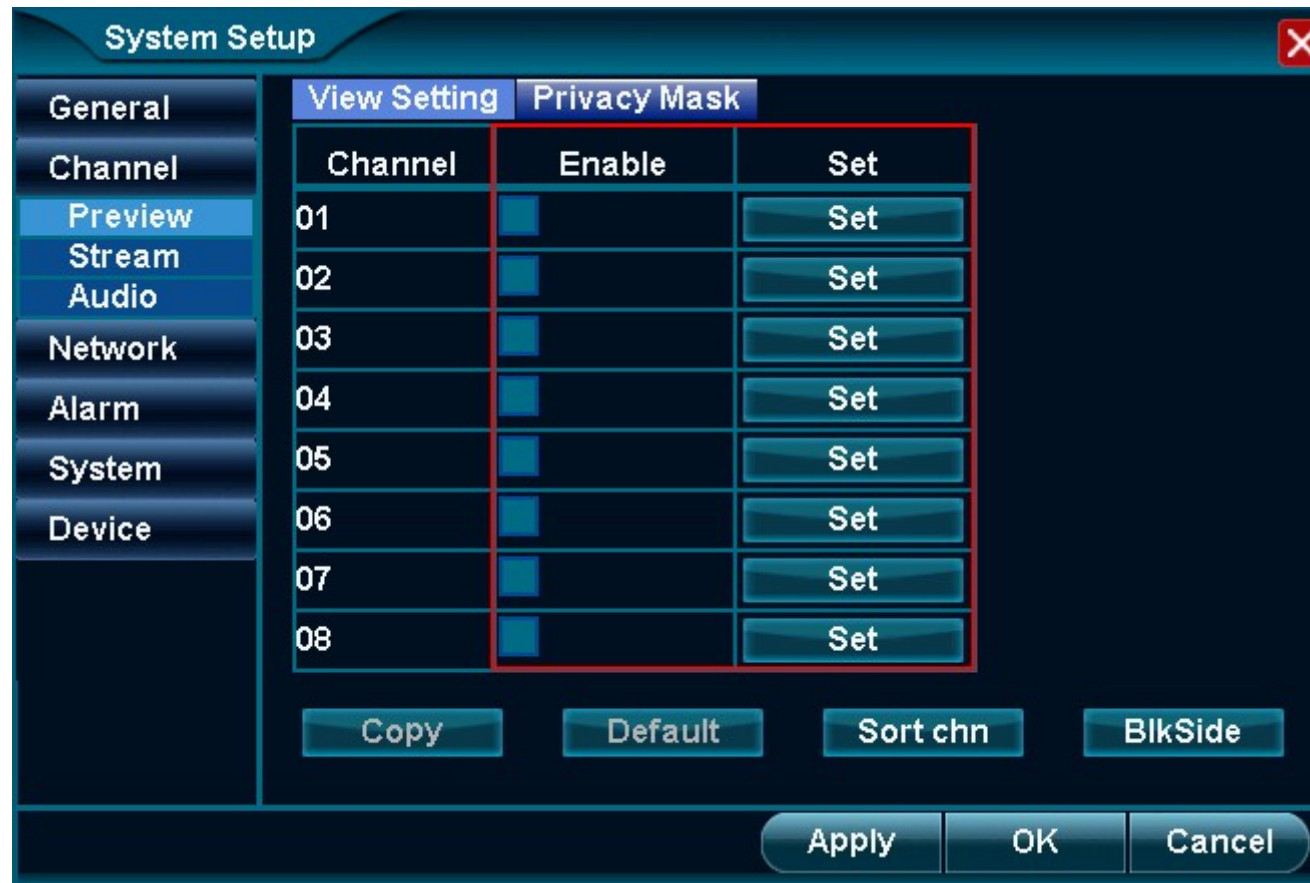
#### 4.3.1.2 Privacy mask

**Function position:** Channel| Preview setting| Privacy mark

**Function introduction:** Hide the part of channel, max 4 privacy mark.



**Step 1:** Open privacy market, and start this function

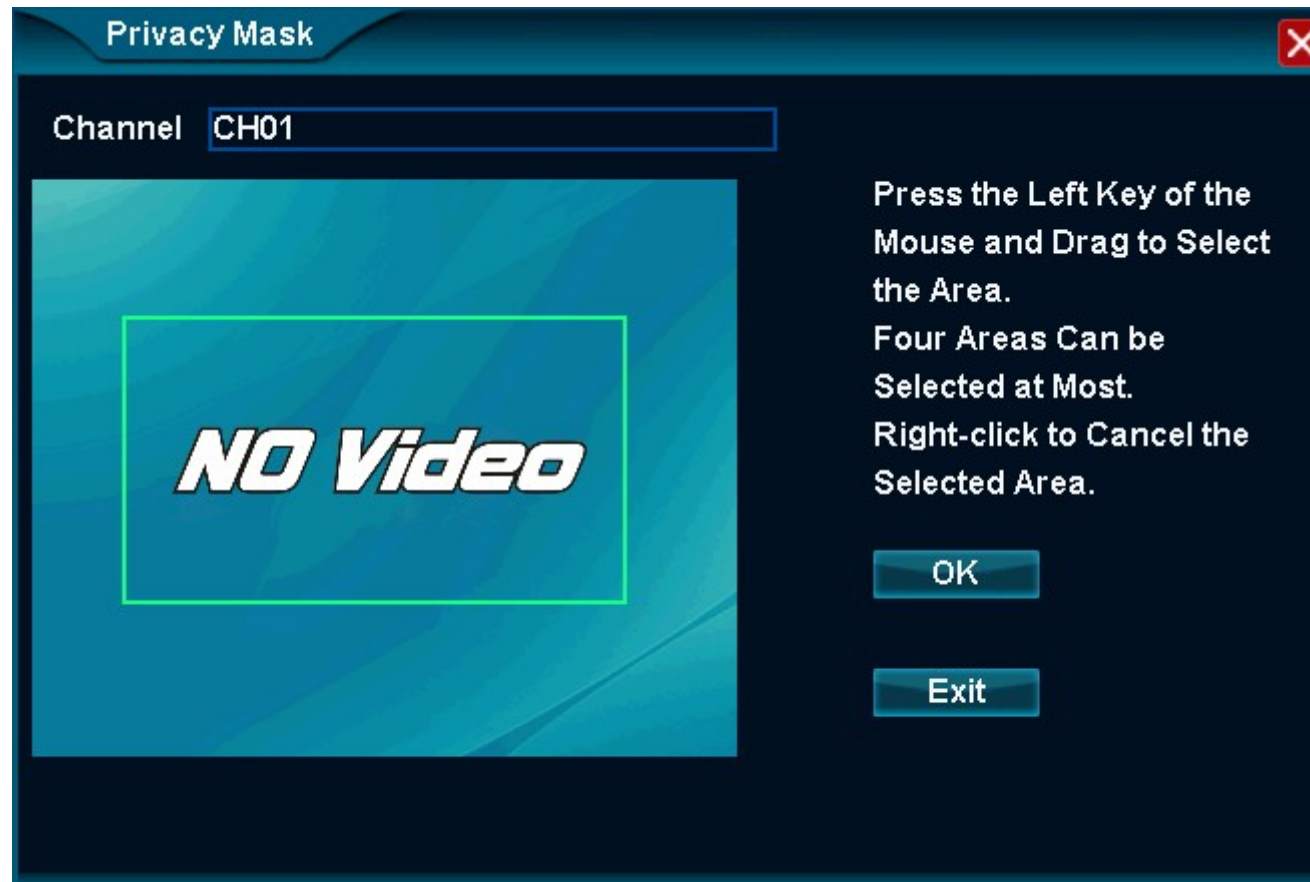


1. Click 【Privacy mark】;
2. Choose“Enable”;

Note: 【Copy】 ,other channels can have same setting.

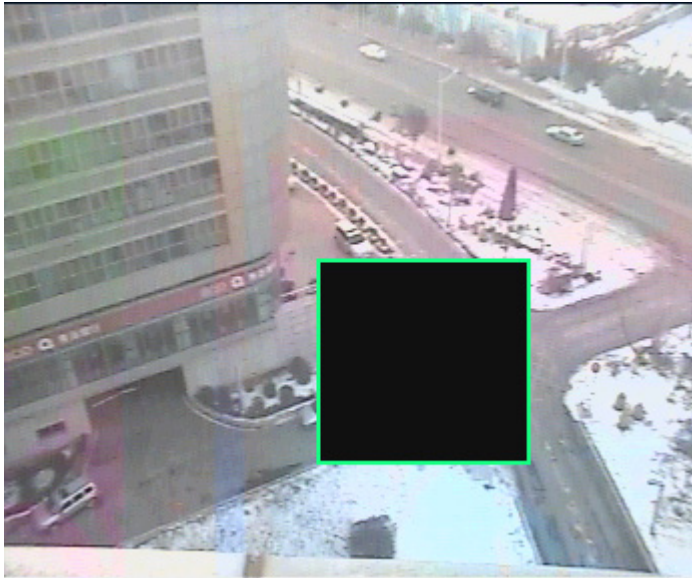
3. Click 【setting】

**Step 2: Setting part of privacy mask**



**Step 3: Ok; Apply**

1. Click **【ok】**, then **【Apply】** or **【ok】**.



### 4.3.2 Stream setting

**Function position:** Channel| Stream setting

**Function introduction:** 1.Main stream setting—stream for local record;  
2. Minor stream setting—stream for network transmission

**System Setup** ✖

General

Channel

Preview

**Stream**

Audio

Network

Alarm

System

Device

| Channel | Main       |      | Minor      |      |         |
|---------|------------|------|------------|------|---------|
|         | Resolution | kbps | Resolution | kbps | Fluency |
| 01      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 02      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 03      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 04      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 05      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 06      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 07      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 08      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |

Copy

Default

Apply

OK

Cancel

#### 4.3.2.1 Main stream



**Function position:** Channel| stream| Main stream

**Function:** Main stream: stream for local record; Resolution can choose No/D1/CIF,kbps can be adjusted.

**System Setup**

General  
Channel  
Preview  
**Stream**  
Audio  
Network  
Alarm  
System  
Device

| Channel | Main       |      | Minor      |      |         |
|---------|------------|------|------------|------|---------|
|         | Resolution | kbps | Resolution | kbps | Fluency |
| 01      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 02      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 03      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 04      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 05      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 06      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 07      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 08      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |

Copy Default

Apply OK Cancel

| Name       | Choice                      | Introduction  |
|------------|-----------------------------|---|
| Resolution | D1/CIF                      | D1: PAL video standard—image resolution 704*576;<br>NTSC video standard, image resolution 640*480。<br>CIF: PAL video standard—image resolution 352*288;<br>NTSC video standard, image resolution 320*240。 |
| kbps       | D1(600kbps)<br>CIF(400kbps) | The more the number, the higher the image quality, the larger HDD it will take  |

**Steps:**

1. Modify" Resolution": NO/CIF/D1;
2. Modify"Kbps";

Note: **【Copy】** ,other channels can have same setting

3. Click **【Apply】** or **【ok】**

Note: Please take compression frame rate in parameter form for reference to setting local  
Compression frame rate

**4.3.2.2 Minor stream**

**Function position:** Channel| stream| Minor stream

**Function introduction:** Minor stream: stream for network transmission; resolution choice **No/QCIF/CIF**, kbps can be adjusted, fluency choice **High/Middle/low**

**System Setup** ✕

General

Channel

Preview

**Stream**

Audio

Network

Alarm

System

Device

| Channel | Main       |      | Minor      |      |         |
|---------|------------|------|------------|------|---------|
|         | Resolution | kbps | Resolution | kbps | Fluency |
| 01      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 02      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 03      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 04      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 05      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 06      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 07      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |
| 08      | D1 ▼       | 600  | CIF ▼      | 200  | 12 ▼    |

Copy
Default

Apply
OK
Cancel

| Name | Choice | Instruction |
|------|--------|-------------|
|------|--------|-------------|

|            |  |   |
|------------|--|---|
| Resolution | No/QCIF/CIF                            | No: Close minor code stream, and make net work transmission by main stream<br>QCIF: PAL video standard—image resolution 176*144;<br>NTSC video standard, image resolution 160*120。<br>CIF: PAL video standard—image resolution 352*288;<br>NTSC video standard, image resolution 320*240。 |
| (kbps)     | Close<br>QCIF(200kbps)<br>CIF(200kbps) | The more kbps, the higher image quality, the more network source that will be took up   |
| Fluency    | <b>High/Middle/low</b>                 | The more fluency, the higher image quality, the more network source that will be took up<br>Please take compression frame rate in parameter form for reference  |

Note: Default fluency “low”, support 14 D1 playback

Fluency “Close”, support 16 D1 playback

Fluency “High”, support only 12 D1 playback

#### Steps:

1. Modify“Resolution”No/QCIF/CIF;
2. Modify“kbps”;
3. Modify” Fluency” **High/Middle/low**

Note: 【Copy】 ,other channels can have same setting

4. Click 【Apply】 or 【ok】

### 4.3.3 Audio setting

**Function position:** Channel| Audio setting

**Function introduction:** 1.Audio monitoring: Hear channel sound locally  
2.Audio compression: Audio/video record, network monitoring. Remote view.

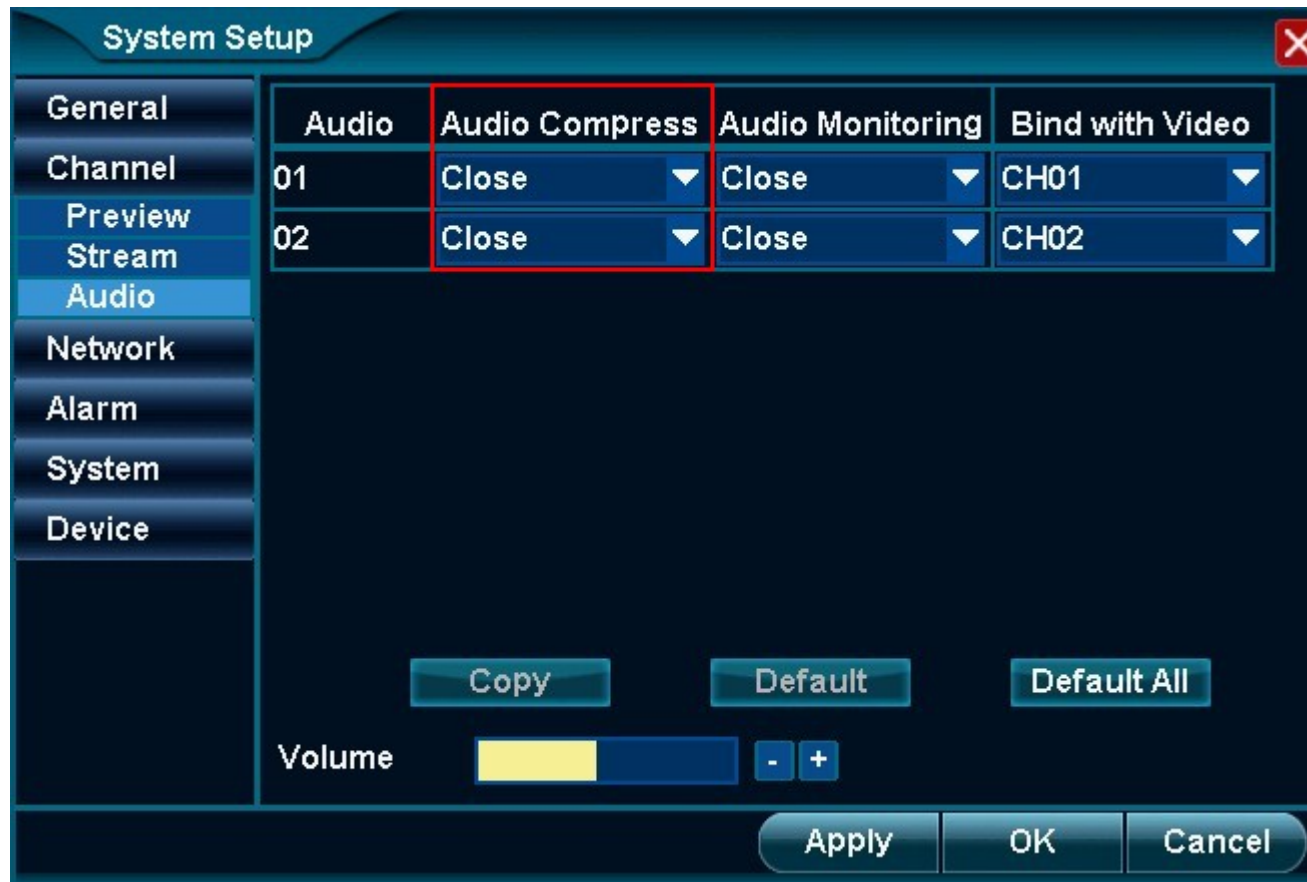


#### 4.3.3.1 Audio compression

**Function position:** Channel| Audio| Audio compression

**Function introduction:** 1. Choose "Audio compression", will record both sound and video

2. Choose "Audio compression" Network monitoring and remote record will be audio and video



**Step:**

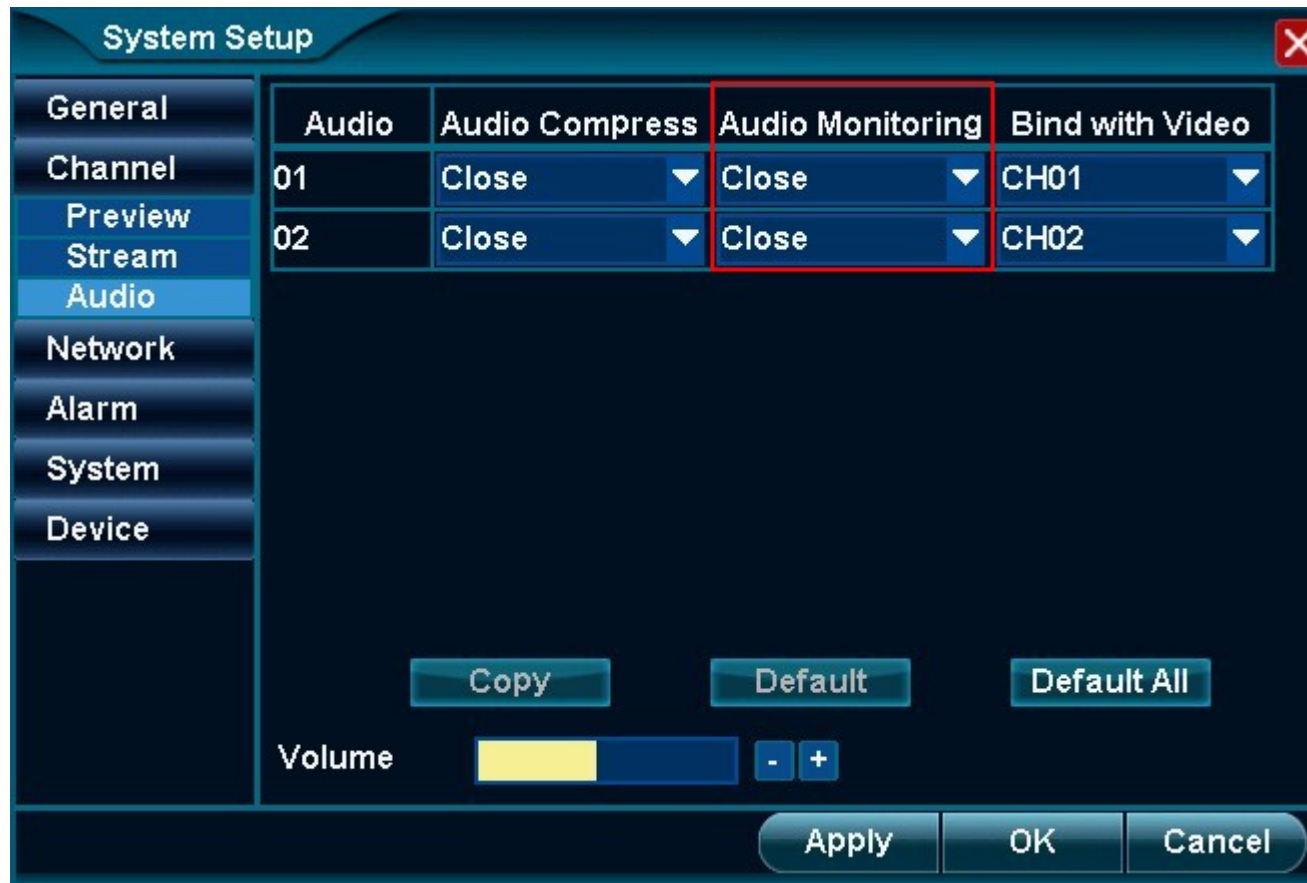
1. Choose" Audio compress", "open";  
[Note: 【Copy】 ,other channels can have same setting](#)
2. Click 【Apply】 or 【ok】
3. local record, network monitoring and remote record will be audio and video

**4.3.3.2 Audio monitoring**

**Function position:** Channel| Audio| Audio monitoring

**Function introduction:** 1.Choose"Audio monitoring", support local audio;  
2. Audio volume can be adjusted



**Steps:**

1. Choose "Audio monitoring", "open";

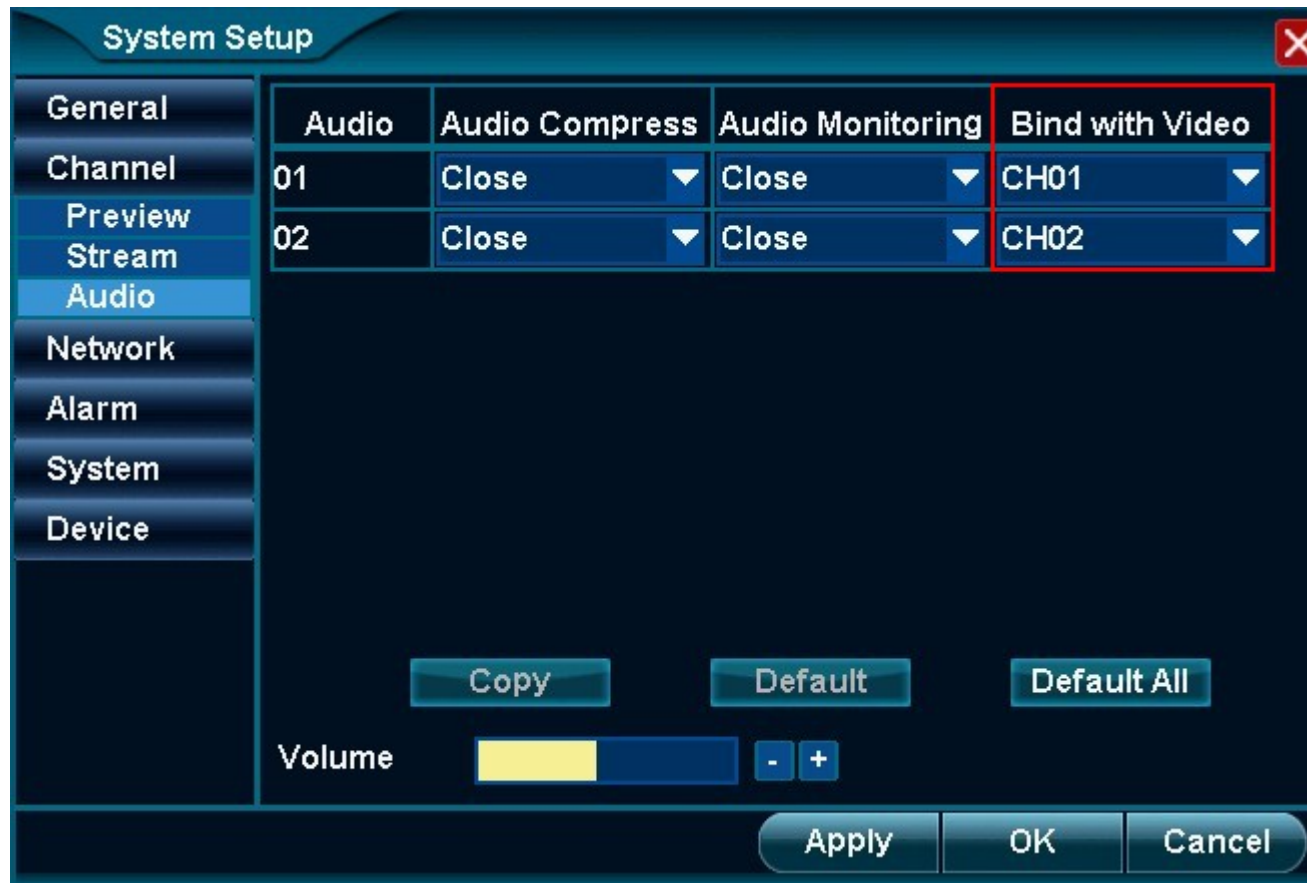
Note: 【Copy】, other channels can have same setting

2. Click **【Apply】** or **【ok】**, connect audio out, can hear sound
3. Audio volume can be adjusted.

#### **4.3.3.3 Bind with video**

**Function position:** Channel| Audio| Bind with video

**Function introduction:** 1. Choose “Bind with video”, when see video, can hear the bind audio  
2. Audio volume can be adjusted

**Steps:**

1. Choose "Bind with video", then choose "CH01";

Note: 【Copy】, other channels can have same setting

Click **【Apply】** or **【ok】** when see channel 1 video, can hear the bind audio accordingly.

#### **4.4 Network**

Function: 1.**Network setting**: Choose ADSL dial-up, wireless dial-up, DHCP gets IP automatically in LAN, Manual setting IP in LAN.  
2. **Network service**: WebCC, Bi-directional talk function

##### **4.4.1 Network setting**

**Function**: Network| network setting

**Function introduction**: 1.Dial-up setting;  
2. DHCP gets IP automatically, Manual setting IP;

###### **4.4.1.1 Dial-up**

ADSL dial-up, or 3G card dial-up。

PPPoE

ADSL Disconnected

Account

Account

Password

Password

Connect

Disconnect

3G Card Disconnected

Number

Number

Account

Account

Password

Password

Connect

Disconnect

#### 4.4.1.2 ADSL dial-up

**Function position:** Network| Network setting| PPPoE

**Function introduction:** ADSL dial-up;

**Step 1: ADSL dial-up**

1. Click **【setting】**
2. Write ADSL dial-up account name and password;
3. Click **【connect】**

[Note: After successful dial-up, it can dial-up automatically after restart DVR or outage.](#)

**Step 2: Disconnect ADSL dial-up**

1. Click **【disconnect】**

**4.4.1.3 3G card dial-up**

**Function position:** Network| Network setting|PPPoE

**Function introduction:** 3G card dial-up

**Step 1: 3G card dial-up**

1. Click **【setting】**
2. Write card number/account/password  
[Please take 5.2 3G card dial-up for reference for number/account/password setting](#)
4. Click **【connect】**

[Note: After successful dial-up, it can dial-up automatically after restart DVR or outage.](#)

**Step 2: Disconnect 3G network card dial-up**

1. Click **【disconnected】**。

**4.4.1.4 DHCP gets IP automatically**

**Function position:** Network| network setting

**Function introduction:** DHCP gets IP automatically in LAN

**Open DHCP steps:**

1. Confirm route to open DHCP, that can be used normally
2. Choose "Automatic IP (DHCP)";
3. Click **【Apply】** or **【ok】** It can get IP automatically

Note: when using DHCP function, it can not make manual IP etc parameters setting

#### 4.4.1.5 Manual setting IP

**Function position:** Network| network setting

**Function introduction:** Manual setting IP in LAN.

**Manual setting steps:**

1. Cancel "Automatic IP (DHCP)" function;
2. Manual writing IP/ NetMask / Gateway/DNS
3. Click **【Apply】** or **【ok】**

#### 4.4.2 Network service

**Function position:** Network| network service

**Function introduction:** 1. Realize web monitoring by WebCC

2. Realize Bi-directional talk between local and remote monitoring

##### 4.4.2.1 WebCC

**Function position:** Network|Network service|WebCC

**Function introduction:** Realize web monitoring by WebCC; Connect with DVR by device IP





**Step 1: Open WebCC function**

1. Choose“WebCC”;  
If 80 port has been took up, pls Modify port number.
2. Click 【Apply】 or 【ok】 to save setting

**Step 2: Client-end use Webccc to connect with DVR**

1. The users open IE browser, and write DVR IP and port number



Note: IE setting: Tool/Internet choice/Safe/Internet/\_customization, open ActiveX plug-in

**4.4.2.2 Bi-directional talk**

**Function position:** Network|Network service| Bi-directional talk

**Function introduction:** Realize Bi-directional talk between local and remote monitoring



**Step 1: Open Bi-directional talk**

1. Choose "Bi-directional talk";
2. choose "channel", example "CH04";

**Step 2: Client-end open bi-directional talk**

1. Client-end connect with DVR
2. Right click the linking window, choose Bi-directional talk

Note: Click  in WebCC, and can do Bi-directional talk

## 4.5 Alarm

**Function position:** System setup| Alarm

**Function introduction:**

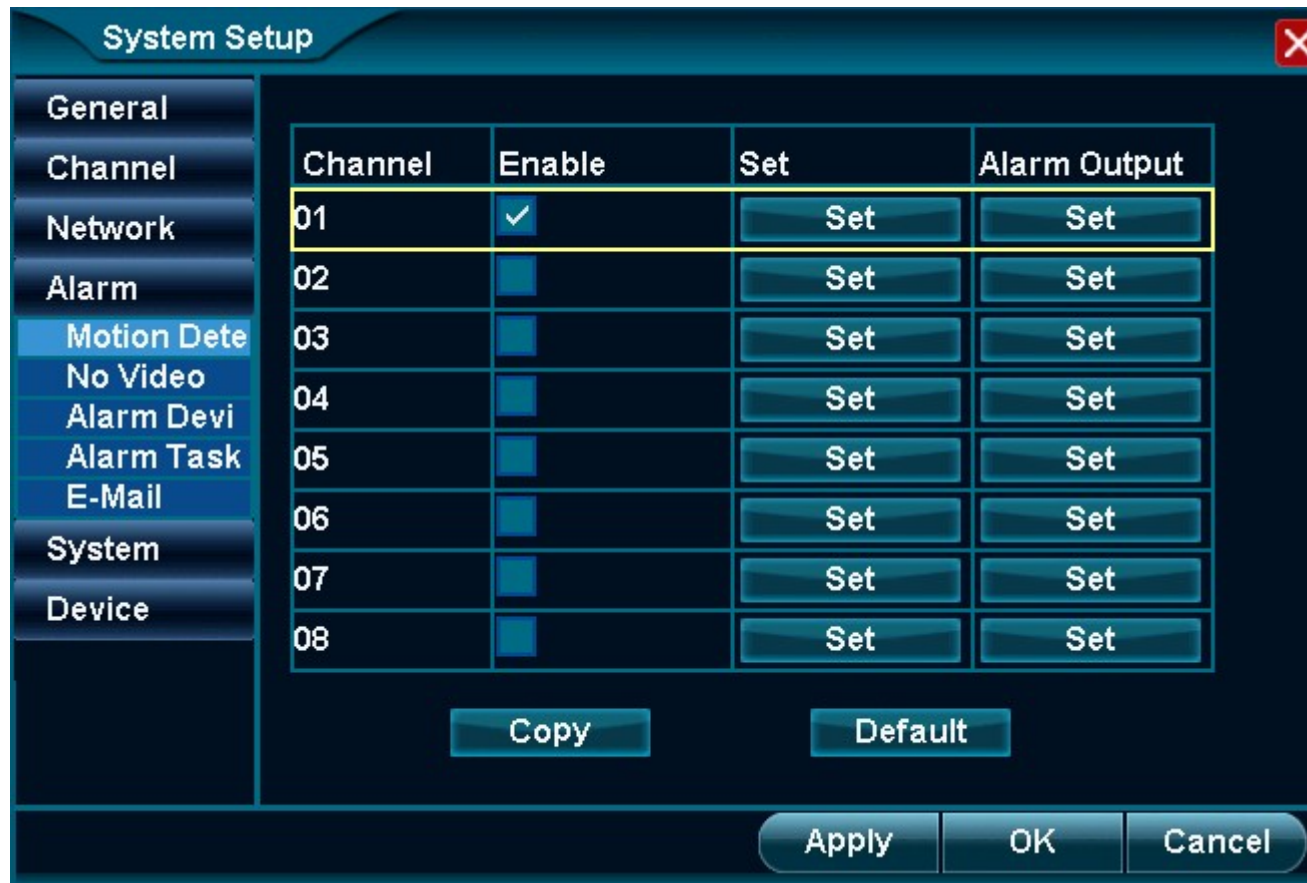
1. Open motion detection alarm, and set alarm out
2. Open No video alarm, and set alarm out
3. Open alarm device, and set alarm out
4. Set Alarm task
5. Set E-mail alert
6. Set Alarm pre-record

### 4.5.1 Motion detection

**Function position:** System setup| Alarm| Motion detection

**Function introduction:** When there is a move object, it can alarm and send alarm-out

**Step 1: Choose channel, open motion detection**



1. Choose "Enable";  
Note: **Copy** ,other channels can have same setting
2. Click **setting**



**Step 2: Set motion detection part**

1. Left click image as starting
2. Left click and move mouse at the same time to choose motion detection part

3. Release left click to finish setting

Note: It only can make motion detection in selected part.

4. Repeat 1—3, and the Max motion detection parts are 4
5. Click **【ok】**, save setting

**Step 3: Adjust sensibility of motion detection**

1. Left click can adjust “Sensibility”

Note: The more number, the more sensible, the much easier to detect the move object

**Step 4: Choose Alarm out**

**Alarm Output**

Keep Alarm **10** seconds

☐ Turn On The Buzzer

☐ Send To Client

☐ E-Mail Alert

☐ Send Snapshot

☐ Start to Record

☐ Call Preset **▼**

☐ Snapshot

☐ Output Module

BR **2400** ▼

Video Ch **CH01** ▼

Video Ch **CH01** ▼

Video Ch **CH01** ▼

Video Ch **CH01** ▼

Addr **0**

Channel **0** ▼

**Default** **OK**

1. Click Alarm output **【setting】**
2. Setting parameters:
  - ◆Keep Alarm:1-999s available

- ◆Turn on the Buzzer: DVR will send out buzzer alarm
- ◆Send to Client: It will send alarm to Client-end
  - ◇Video channel: the Client-end connect with this channel
- ◆E-mail alert: It will send emails to collection box
  - ◇Send picture in attachment
- ◆Start record: It will record the selected channels
- ◆Call preset: It will adjust selected preset of PTZ channel
- ◆Snapshot: It will snapshot the selected channel and save images.
- ◆Output Module: It will open alarm for the relative device (normal close)

3. Click **【ok】** ,save setting

#### **Step 5: Detect alarm setting**

1. Touch selected channel motion detection, and it can send out alarm alert
2. Selected alarm out parameter setting work normally
3. Top menu will popup alarm coin, and record log at same time

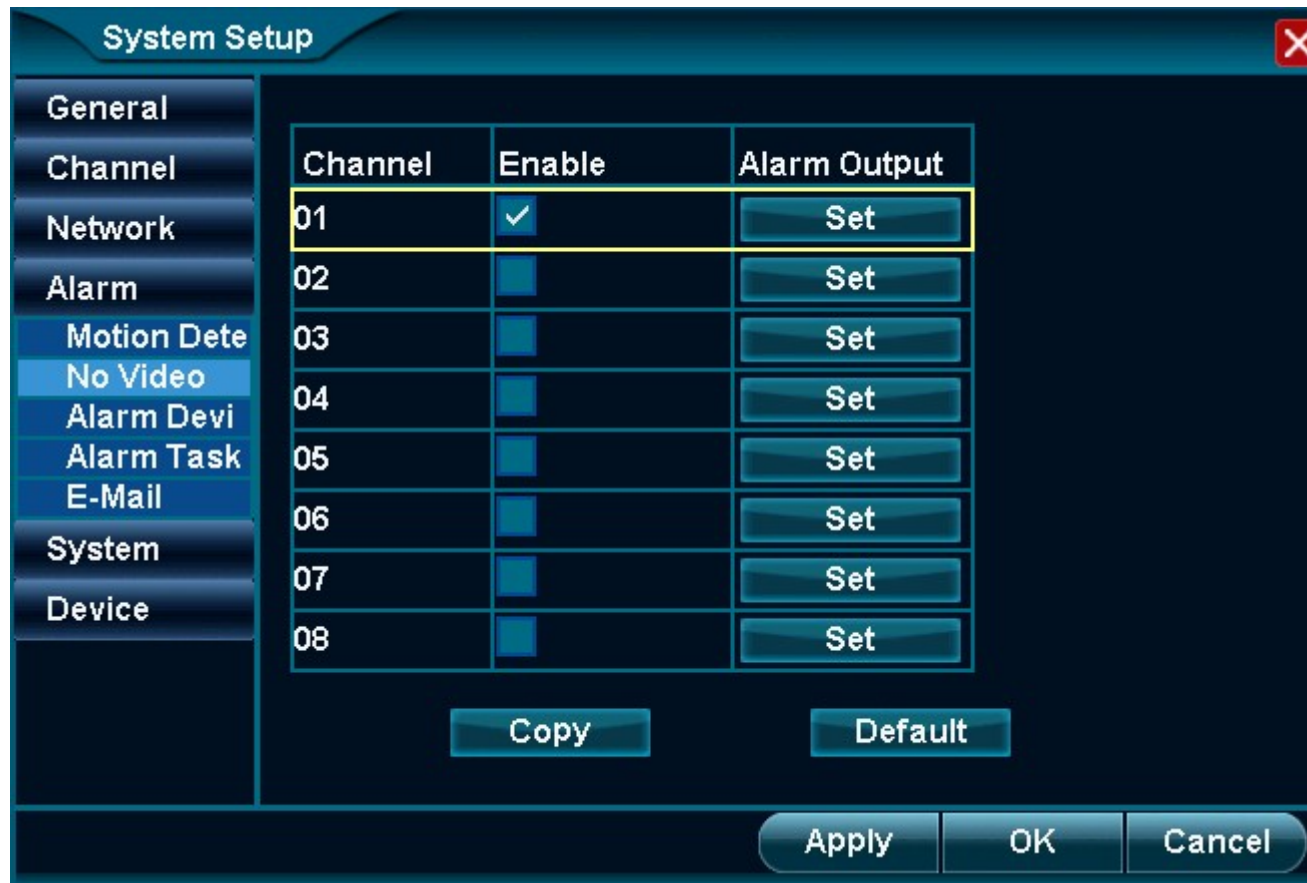
### **4.5.2 No video**

**Function position:** System setup| Alarm| No video

**Function introduction:** When detect no video, it will send alarm alert

#### **Step 1: Choose channel, and open no video detection**





1. Choose "Enable";  
Note: **Copy** ,other channels can have same setting
2. Click **set**

## Step 2: Setting parameter



The image shows a software window titled "Alarm Output" with a red close button in the top right corner. The window contains various configuration options for alarm settings. On the left, there are checkboxes for "Turn On The Buzzer", "Send To Client", "E-Mail Alert", "Send Snapshot", "Start to Record", "Call Preset", "Snapshot", and "Output Module". The "Keep Alarm" duration is set to "10 seconds". The "BR" (Baud Rate) is set to "2400". On the right, there are four "Video Ch" dropdown menus, all set to "CH01", and two "Addr" and "Channel" dropdown menus, both set to "0". At the bottom, there are "Default" and "OK" buttons.

| Parameter          | Value                               |
|--------------------|-------------------------------------|
| Keep Alarm         | 10 seconds                          |
| Turn On The Buzzer | <input checked="" type="checkbox"/> |
| Send To Client     | <input checked="" type="checkbox"/> |
| E-Mail Alert       | <input checked="" type="checkbox"/> |
| Send Snapshot      | <input checked="" type="checkbox"/> |
| Start to Record    | <input checked="" type="checkbox"/> |
| Call Preset        | <input type="checkbox"/> (dropdown) |
| Snapshot           | <input checked="" type="checkbox"/> |
| Output Module      | <input checked="" type="checkbox"/> |
| BR                 | 2400 (dropdown)                     |
| Video Ch (1)       | CH01 (dropdown)                     |
| Video Ch (2)       | CH01 (dropdown)                     |
| Video Ch (3)       | CH01 (dropdown)                     |
| Video Ch (4)       | CH01 (dropdown)                     |
| Addr               | 0 (dropdown)                        |
| Channel            | 0 (dropdown)                        |

1.Setting parameters:

◆Keep Alarm:1-999s available

- ◆Turn on the Buzzer: DVR will send out buzzer alarm
- ◆Send to Client: It will send alarm to Client-end
  - ◇Video channel: the Client-end connect with this channel
- ◆E-mail alert: It will send emails to collection box
  - ◇Send picture in attachment
- ◆Start record: It will record the selected channels
- ◆Call preset: It will adjust selected preset of PTZ channel
- ◆Snapshot: It will snapshot the selected channel and save images.
- ◆Output Module: It will open alarm for the relative device (normal close)

2.Click 【ok】 ,save setting

### **Step 3: Detect Alarm setting**

1. Disconnected with the selected channel
2. Selected alarm out parameter setting work normally
3. Top menu will popup alarm coin, and record log at same time

## **4.5.3 Alarm device**

**Function position:** System setup| Alarm| Alarm device

**Function introduction:** When touch alarm device, it will send alarm out.

### **Step 1: Choose “Alarm output”**

**System Setup** ✕

General

Channel

Network

Alarm

Motion Dete

No Video

Alarm Devi

Alarm Task

E-Mail

System

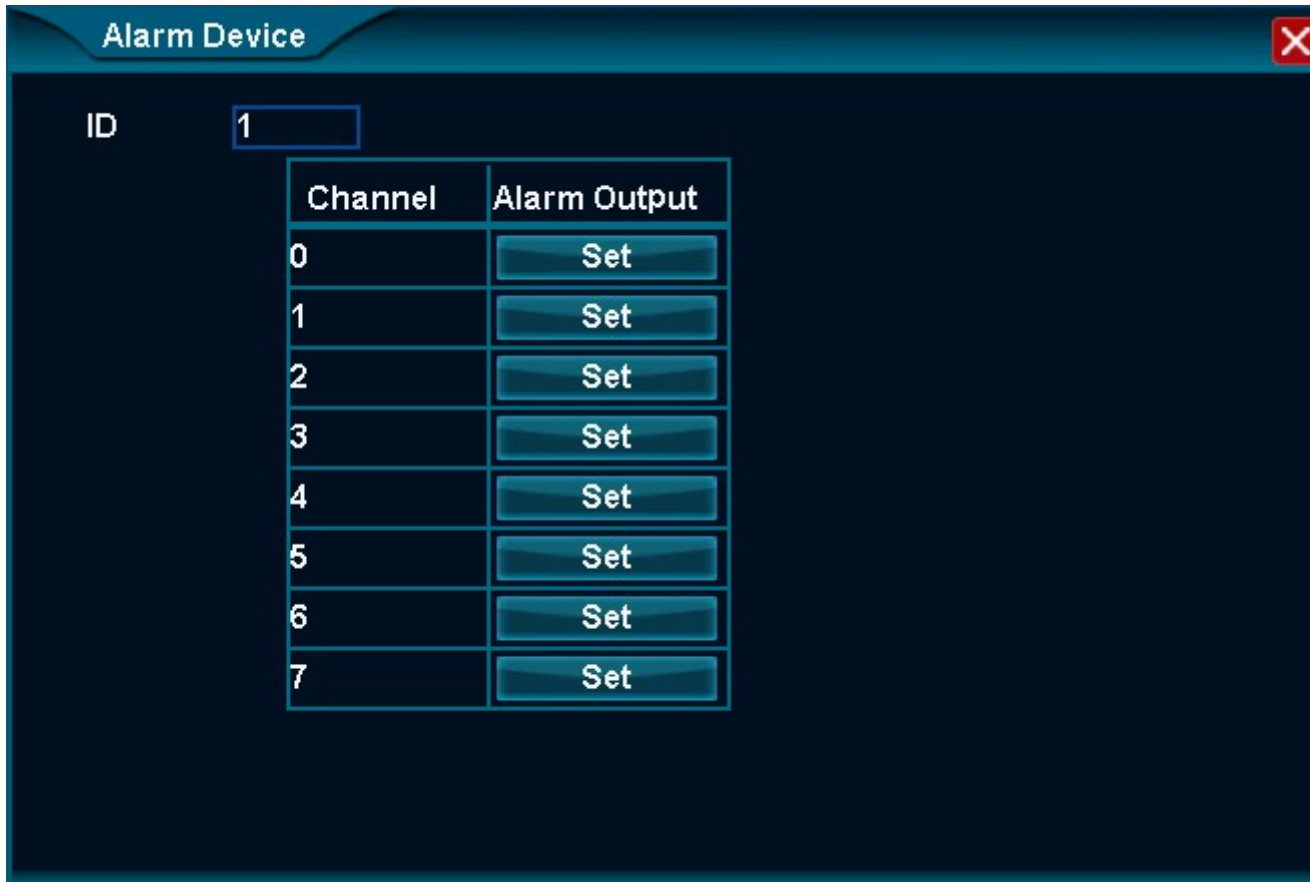
Device

| ID | Enable                              | Addr | BR     | Alarm Output                       |
|----|-------------------------------------|------|--------|------------------------------------|
| 1  | <input checked="" type="checkbox"/> | 0    | 2400 ▼ | <input type="button" value="Set"/> |
| 2  | <input type="checkbox"/>            | 1    | 2400 ▼ | <input type="button" value="Set"/> |
| 3  | <input type="checkbox"/>            | 2    | 2400 ▼ | <input type="button" value="Set"/> |
| 4  | <input type="checkbox"/>            | 3    | 2400 ▼ | <input type="button" value="Set"/> |

1. Choose "Addr"  
[Note: Please choose the relative addr of alarm device](#)
2. Choose "BR" type

Note: Please write the relative BR of alarm device

**Step 2: Setting alarm output parameter 1**



| Channel | Alarm Output |
|---------|--------------|
| 0       | Set          |
| 1       | Set          |
| 2       | Set          |
| 3       | Set          |
| 4       | Set          |
| 5       | Set          |
| 6       | Set          |
| 7       | Set          |

Choose "addr"

Note: Please choose the relative addr of alarm device

Click 【set】

**Step 3: Setting alarm output parameter 2**

**Alarm Output**

Keep Alarm  seconds

☐ Turn On The Buzzer

☐ Send To Client      Video Ch

☐ E-Mail Alert

☐ Send Snapshot      Video Ch

☐ Start to Record      Video Ch

☐ Call Preset       Video Ch

☐ Snapshot      Video Ch

☐ Output Module      Addr

BR       Channel

1. Click **【set】**
2. Setting Alarm output parameters:
  - ◆Keep Alarm:1-999s available

- ◆Turn on the Buzzer: DVR will send out buzzer alarm
  - ◆Send to Client: It will send alarm to Client-end
    - ◇Video channel: the Client-end connect with this channel
  - ◆E-mail alert: It will send emails to collection box
    - ◇Send picture in attachment
  - ◆Start record: It will record the selected channels
  - ◆Call preset: It will adjust selected preset of PTZ channel
  - ◆Snapshot: It will snapshot the selected channel and save images.
  - ◆Output Module: It will open alarm for the relative device (normal close)
- 2.Click 【ok】 ,save setting

#### **Step 4: Detect Alarm device**

1. Touch alarm device
2. Selected alarm out parameter setting work normally
3. Top menu will popup alarm coin, and record log at same time

#### **4.5.4 Alarm task**

**Function position:** System setup| Alarm| Alarm task

**Function introduction:** It only send alarm output in preset time



**System Setup** ✖

**General**

**Channel**

**Network**

**Alarm**

Motion Dete

No Video

Alarm Devi

Alarm Task

E-Mail

**System**

**Device**

Motion Detect
No Video
Alarm Device

| Channel | Enable                              | Start Time |     | End Time |     |
|---------|-------------------------------------|------------|-----|----------|-----|
|         |                                     | Hour       | Min | Hour     | Min |
| 01      | <input checked="" type="checkbox"/> | 00         | 00  | 24       | 00  |
| 02      | <input type="checkbox"/>            | 00         | 00  | 24       | 00  |
| 03      | <input type="checkbox"/>            | 00         | 00  | 24       | 00  |
| 04      | <input type="checkbox"/>            | 00         | 00  | 24       | 00  |
| 05      | <input type="checkbox"/>            | 00         | 00  | 24       | 00  |
| 06      | <input type="checkbox"/>            | 00         | 00  | 24       | 00  |
| 07      | <input type="checkbox"/>            | 00         | 00  | 24       | 00  |
| 08      | <input type="checkbox"/>            | 00         | 00  | 24       | 00  |

Copy
Default

Apply
OK
Cancel

Steps:

1. Choose" Alarm types"; "Motion detect/no video/Alarm Device" are available
2. Choose" Enable"

3. Modify" Start time"," End time";

Note: It only send alarm output in preset time.

4. Click 【Apply】 or 【ok】 ,save setting

#### 4.5.5 E-mail alert

**Function position:** System setup| Alarm| E-mail

Function introduction: setting email alert parameters: sender setting, receiver setting, Interval etc

**System Setup**

**General**  
**Channel**  
**Network**  
**Alarm**  
**Motion Dete**  
**No Video**  
**Alarm Devi**  
**Alarm Task**  
**E-Mail**  
**System**  
**Device**

**Sender Setting**

SMTP: Custom

User Name:

Password:

Interval: 1 Min

**Receiver Setting**

Receiver Site:

Modify

Add Delete

Mail Testing

Apply OK Cancel

**Step 1: Sender setting**

1. Choose "SMTP";

Note: can manual writing or choose exist email server

2. Write user name and password
3. Modify" Interval" (1~99Min);
4. Click **【Apply】** ,save setting

**Step 2: Receiver setting**

1. Write email address in "Receiver Site"
2. Click **【Add】**, then can add new receiver into list
3. Click **【Apply】** or **【ok】** ,save setting

**Step 3: Mail Testing**

1. Click **【Mail Testing】**;
2. Detect the emails in collection box

## 4.6 System

**Function position:** System setup| System

**Function introduction:** 1.**Log:** Search, DVR log backup; Log:

2. Maintenance: Reboot setup, software update, import/export setting

3.**Informatoin:** Search DVR hardware/software information

### 4.6.1 Log:

**Function position:** System| Log

**Function introduction:** 1. Search DVR operation log

2. Save the eligible logs into U disk



#### 4.6.1.1 Log query

**Step: Query this DVR's log**

1. Select log type, eg system operation, login, etc.
2. Change query time

**Note:** Don't select above "Time", it will query all logs.

3. Click and select log, Single-click" Detail" to read more information.

#### **4.6.1.2 Log backup**

**Step: Backup log into U-disk.**

1. Insert FAT32 format U-Disk
2. Query qualified log.
3. Click "Backup" button to backup the log into U-Disk.

#### **4.6.2 Maintenance**

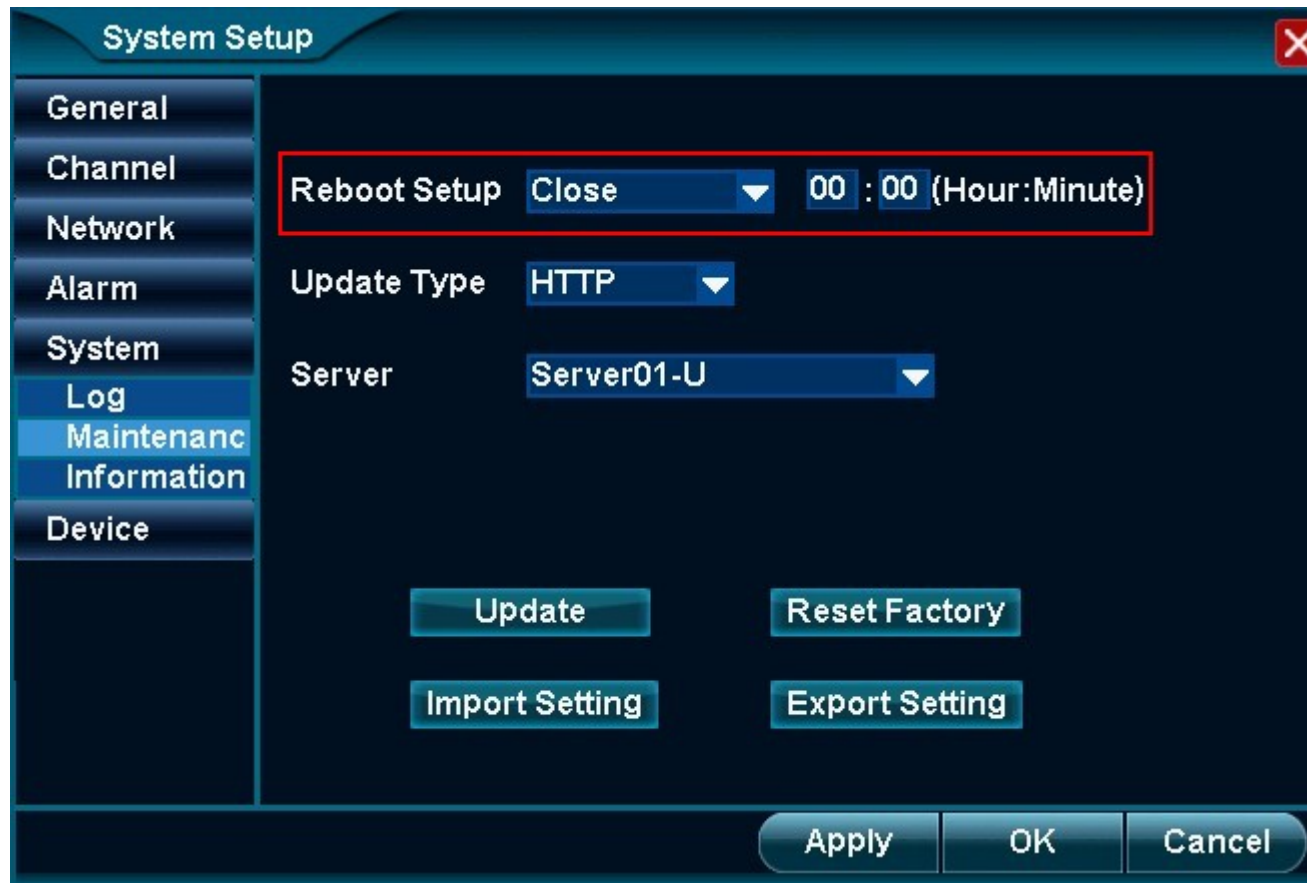
Function:

1. Time reboot: This DVR can be set reboot.
2. Software update: U-Disk, FTP server or website can be selected for update.
3. Import/Export setting: Export this DVR's setting into U-Disk. Import U-Disk' setting into this DVR.

##### **4.6.2.1 Time Reboot**

Location: System Setup|Maintenance|Reboot

Function: The reboot function is used to prevent from overmuch file fragments. There will be lots of file fragments at DVR system when it is in long-time running.



Step: Enable Time Reboot function

1. Select reboot date at "Reboot Setup". It takes week as standard.
2. Set reboot time, eg, 23:00.

3. Click“Apply”or “OK”to save setting.

#### **4.6.2.2 Software update**

Location: System Setup|Maintenance|Update

Function: The software can be updated through USB, FTP or online update.

Note: When it is updated, the electric power can not be powered off , otherwise it will make the DVR unable to work..



## 4.6.2.2.1 USB update



Step:

1. Put updated files at FAT32 format U-Disk. These two files should be placed at root directory at U-Disk. Then insert the U-Disk into DVR's USB port.
2. Select USB at "Update type".
3. Click "Update" button to finish this work.

Note: After update is finished, it will automatically reboot the DVR. When the DVR is started, it is the latest version.

## 4.6.2.2.2 FTP update



The image shows a 'System Setup' dialog box with a dark blue background. On the left is a vertical menu with the following items: General, Channel, Network, Alarm, System, Log, Maintenance Information (highlighted in light blue), and Device. The main area of the dialog contains the following settings:

- Reboot Setup:** A dropdown menu set to 'Close' and a time field set to '00 : 00 (Hour:Minute)'.
- Update Type:** A dropdown menu set to 'FTP', which is enclosed in a red rectangular box.
- Server:** A text input field containing the IP address '192.168.8.118', also enclosed in the red rectangular box.

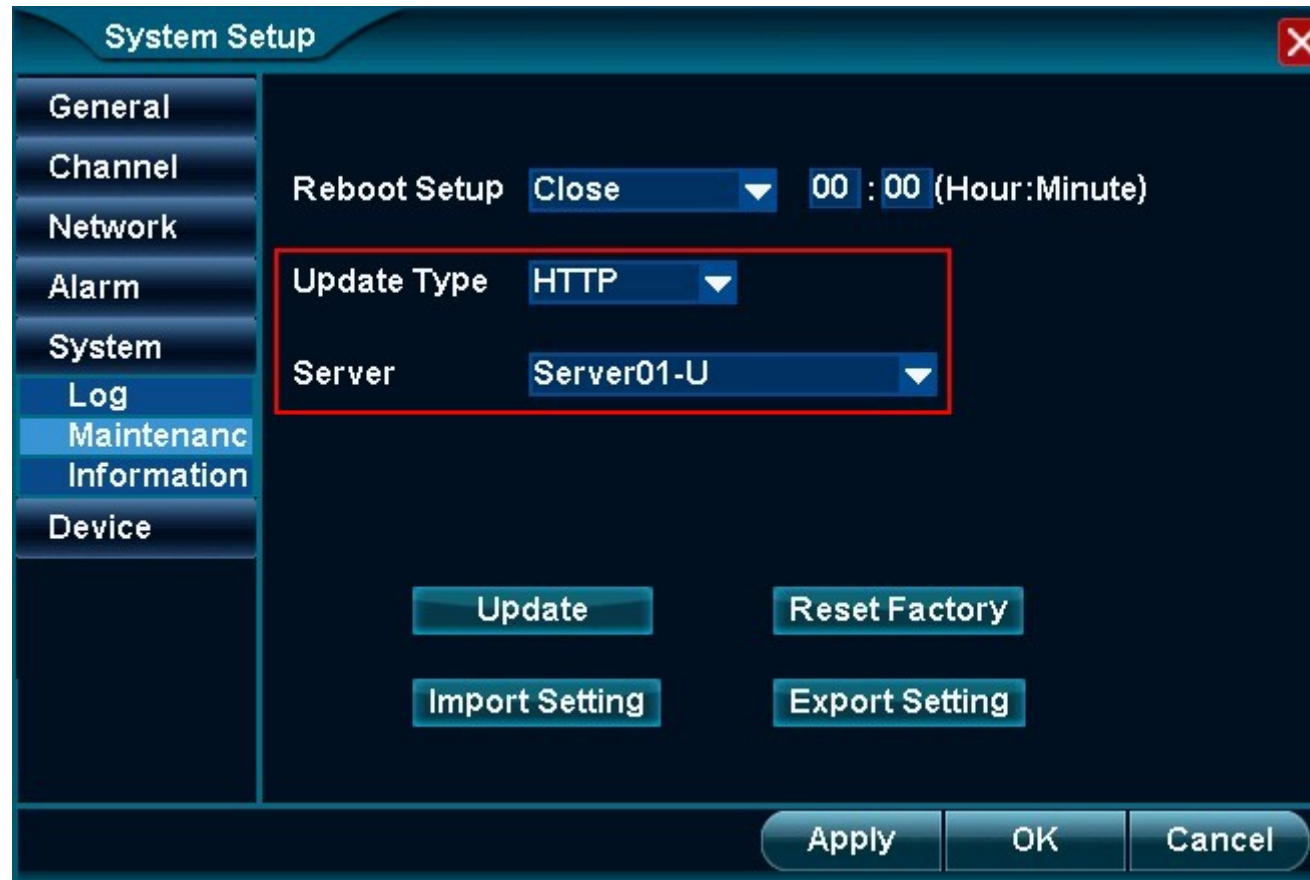
At the bottom of the main area are four buttons: 'Update', 'Reset Factory', 'Import Setting', and 'Export Setting'. At the very bottom of the dialog are three buttons: 'Apply', 'OK', and 'Cancel'.

Step:

1. Place updated file at root directory at FTP server.
2. Select FTP at “Update type”.
3. Modify “Server”address into FTP server’s IP address.
4. Click “Update”button to finish this work.

Note: After update is finished, it will automatically reboot the DVR. When the DVR is started, it shall be the latest version.

## 4.6.2.2.3 HTTP online update



Step:1. Make sure the DVR is connected with internet.

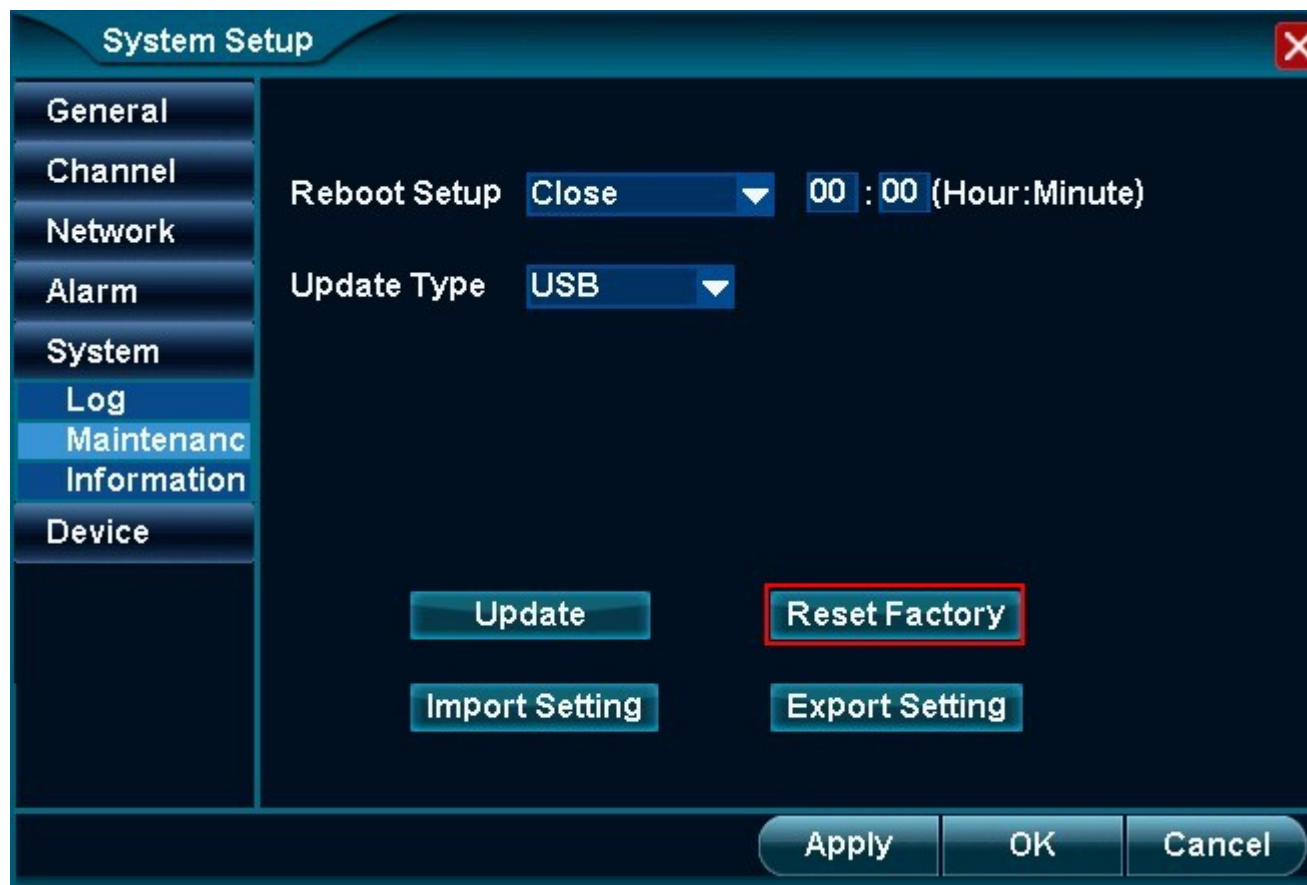
2. Select "HTTP" at "Update type".
3. Select update server at "Server".
4. Click "Update" button to finish this work

Note: After update is finished, it will automatically reboot the DVR. When the DVR is started, it shall be the latest version.

#### **4.6.2.3 Reset factory**

Location: System Setup |Maintenance| Reset factory

Function: All setting at this DVR can be restore factory setting.



Step: 1. Click "Reset Factory".

2. Click "OK" at confirmation interface to reboot the DVR and then all original factory settings are restored.

#### **4.6.2.4 Setting import/export**

Location: Location: System Setup| Maintenance| export/import Setting

Function: 1.Export DVR's setting to U-Disk for backup.

2. Import the same setting from U-Disk to this DVR.





Step of Exporting:

1. Insert U-Disk with FAT32 format into DVR
2. .Click export setting

Step of Importing:

1. Insert U-Disk with FAT32 format into DVR and there are the settings of same model DVR at U-Disk.
2. Click" Import setting" button to import the setting from U-Disk to this DVR.

Note: The imported setting will be valid after the DVR is rebooting.

#### 4.6.3 Information:

Location: System Setup|Maintenance|Information

Function: It can be used to query this DVR's serial number, software version's information or hardware version's information.

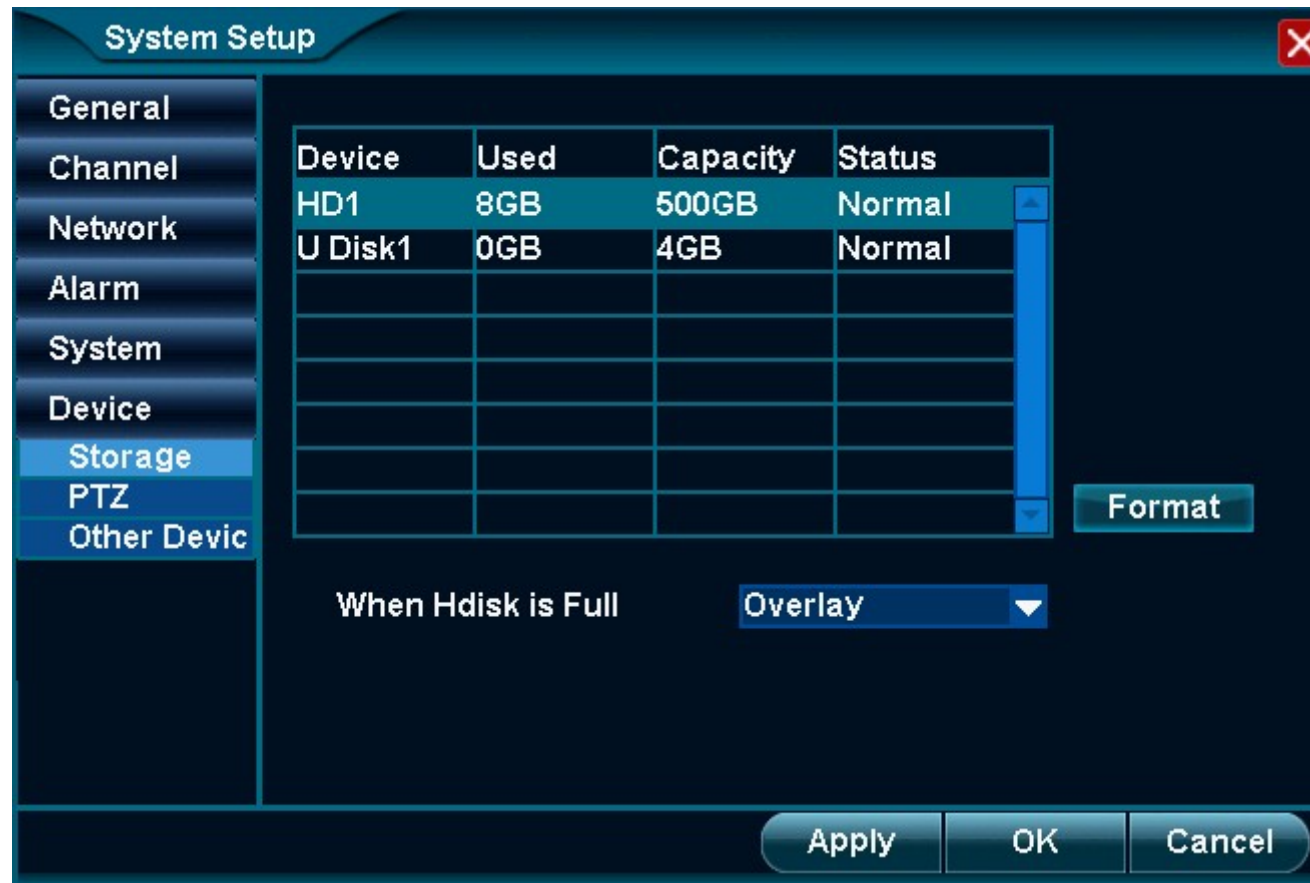
## 4.7 Device

### 4.7.1 Storage

Location: Device|Storage

Function: 1.Query the inserted magnetic disk or hard disk's working mode.

2.Format inserted hard disk or U-Disk.



#### 4.7.1.1 Hard disk(Hdisk is named in interface) working mode



When it is "Hdisk is full", please select "Overlay" or "Stop Recording".

**Explanation of Hard disk working model**

| Working mode   | explanation   |
|----------------|---|
| Overlay        | When capacity is not enough, delete earlier video files.                                      |
| Stop recording | The reserved capacity can be set. When it is not enough, the video recording will be stopped. |

#### 4.7.1.2 Format

Step:

1. Click and select magnetic disk in the list.
2. Click "Format".
3. Click "OK" at confirmation interface.
4. The formatted magnetic disk can be used for storage or backup.

#### 4.7.2 PTZ

##### 4.7.2.1 PTZ adjustment

A screenshot of a PTZ configuration window. The window has a title bar with 'PTZ' and a close button. The main area contains several settings: 'Channel' is a text box with '01'; 'Addr' is a text box with '1'; 'Protocol' is a dropdown menu with 'PELCO-D'; 'BR' is a dropdown menu with '2400'; and five checkboxes for 'Left Right Swap', 'Up Down Swap', 'Iris Zoom Swap', 'Focus Zoom Swap', and 'Zoom Swap', all of which are currently unchecked. At the bottom left are 'Preset' and 'Patrol' buttons. At the bottom right are 'Default' and 'OK' buttons.

|                 |                          |
|-----------------|--------------------------|
| Channel         | 01                       |
| Addr            | 1                        |
| Protocol        | PELCO-D                  |
| BR              | 2400                     |
| Left Right Swap | <input type="checkbox"/> |
| Up Down Swap    | <input type="checkbox"/> |
| Iris Zoom Swap  | <input type="checkbox"/> |
| Focus Zoom Swap | <input type="checkbox"/> |
| Zoom Swap       | <input type="checkbox"/> |

Preset Patrol

Default OK

Step 1:

1. Click "Seting" at each channel to open the setting interface.
2. Input PTZ's address, protocol and BP.


3. Click "OK" to save above setting.

#### Step2: PTZ control interchange



#### 4.7.2.2 Presetting point

Step1: Open presetting interface.



The image shows a software window titled "PTZ" with a red close button in the top right corner. The window contains a list of settings for a PTZ camera. The settings are as follows:

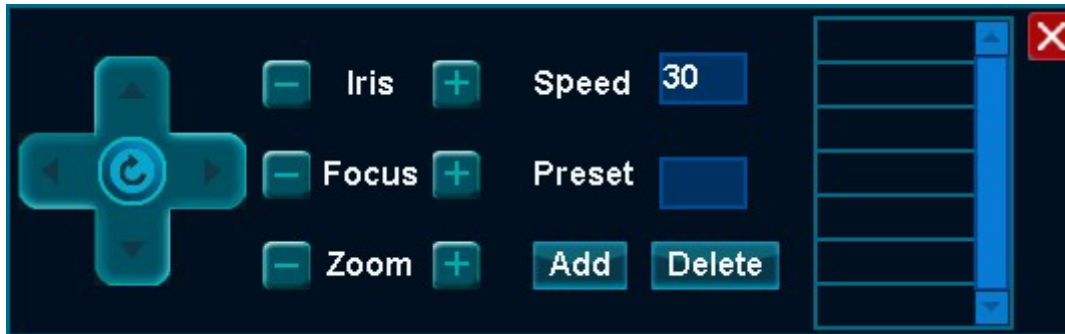
| Setting         | Value                    |
|-----------------|--------------------------|
| Channel         | 01                       |
| Addr            | 1                        |
| Protocol        | PELCO-D                  |
| BR              | 2400                     |
| Left Right Swap | <input type="checkbox"/> |
| Up Down Swap    | <input type="checkbox"/> |
| Iris Zoom Swap  | <input type="checkbox"/> |
| Focus Zoom Swap | <input type="checkbox"/> |
| Zoom Swap       | <input type="checkbox"/> |

At the bottom of the window, there are two buttons: "Preset" and "Patrol". The "Preset" button is highlighted with a red border. In the bottom right corner, there are two more buttons: "Default" and "OK".

1. Select PTZ channel.
2. Click "Setting" | "Preset" to open presetting interface.



### Step 2: Add presetting point



1. Click PTZ direction button and select visual angle.
2. Input new preset series number at "Preset".
3. Click "Add" to add new preset point into the list.

Note: Click existing preset point in the list. Click "Delete" to delete selected point.

### Step 3: Call preset point (Menu function)



1. right-click menu or main menu to open "PTZ control" | "More".
2. Select preset point from preset point list.

3. Click "Goto" to make PZT visual angle turn to this point location.

#### **4.7.2.3 Patrol**

**Step 1: Open patrol setting interface.**



The image shows a software window titled "PTZ" with a red close button in the top right corner. The window contains a configuration interface with the following elements:

- Channel:** A text input field containing the value "01".
- Addr:** A text input field containing the value "1".
- Protocol:** A dropdown menu currently showing "PELCO-D".
- BR:** A dropdown menu currently showing "2400".
- Left Right Swap:** A checkbox that is currently checked.
- Up Down Swap:** A checkbox that is currently checked.
- Iris Zoom Swap:** A checkbox that is currently checked.
- Focus Zoom Swap:** A checkbox that is currently checked.
- Zoom Swap:** A checkbox that is currently checked.
- Buttons:** At the bottom, there are four buttons: "Preset", "Patrol" (which is highlighted with a red border), "Default", and "OK".

1. Select PTZ channel
2. Click "Set" | "Patrol" to open patrol interface.

**Step 2: Add preset point into patrol**

The screenshot shows a software window titled "Cruise" with a red close button in the top right corner. Inside the window, there is a table with two columns: "Preset" and "Stay Time". The table contains three rows of data: (1, 10), (2, 10), and (3, 5). Below the table, there are input fields for "Preset" (showing 3) and "Time" (showing 5), each with a dropdown arrow. To the right of these fields are two buttons: "Add" and "Delete". At the bottom of the window, there are two more buttons: "Save" and "Exit".

| Preset | Stay Time |
|--------|-----------|
| 1      | 10        |
| 2      | 10        |
| 3      | 5         |
|        |           |
|        |           |
|        |           |
|        |           |
|        |           |

Preset  Time

1. Select preset point from preset point list.  
Adjust detention time at this preset point

2. Click "Add" to add this preset point into patrol.
3. [Note: Click existing preset point in the list. Click "Delete" to delete selected point.](#)
4. Click "Save" to save above setting.

**Step 3: Call patrol to cruise**



### 4.7.3 Other devices

#### 4.7.3.1 Monitor's width and height

Location: Other Device | video output

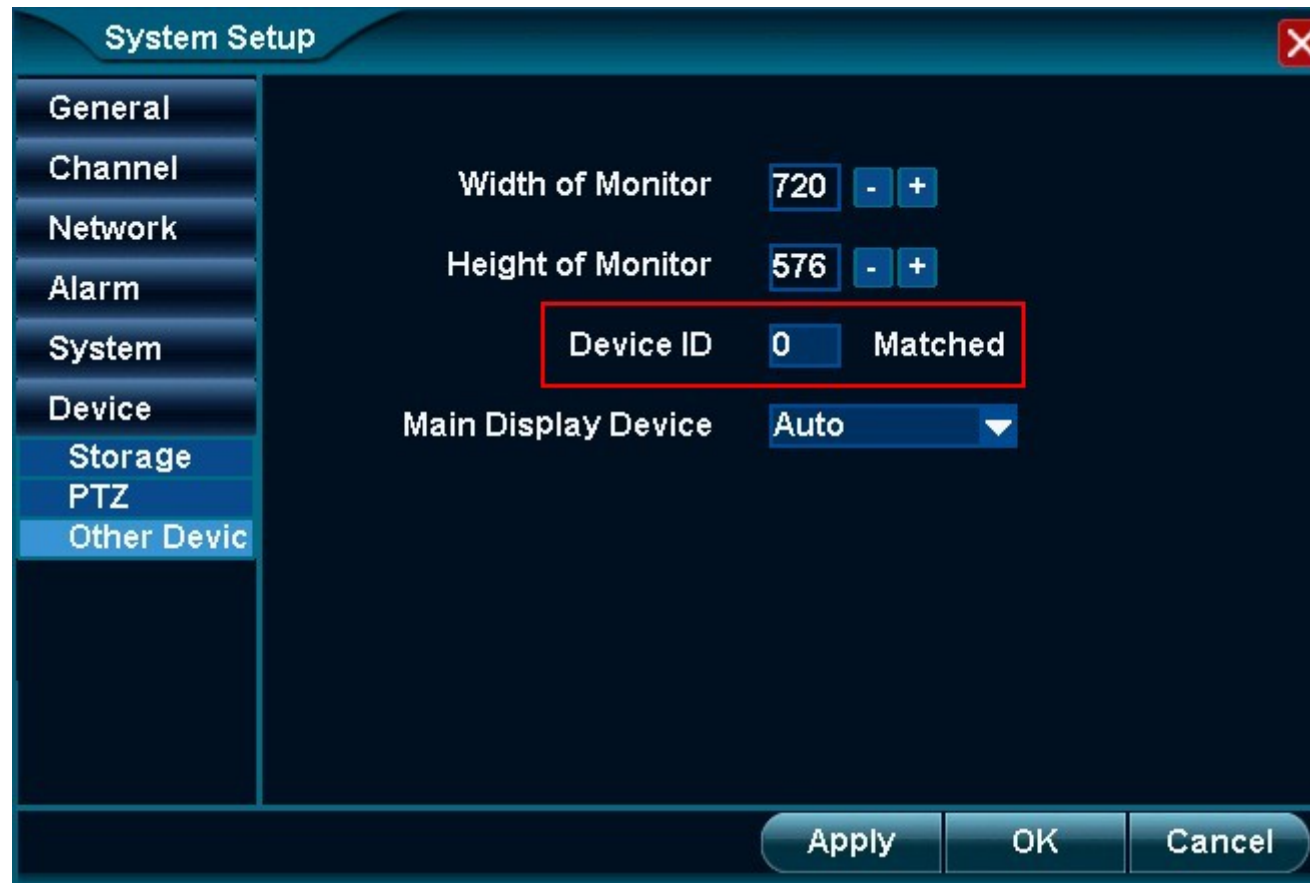
Function: Width or height of output image can be adjusted on monitor



#### 4.7.3.2 Device ID

**Location** : Device |Other Device|Device ID

**Function:** This DVR's device ID can be modified at range of 1~255. When the ID is matched with controller, the controller can control this DVR one to one.



Step of match device ID

1. Modify this DVR'S device ID.
2. Match device ID: Press following keys on controller gradually: 【DEV】 + 【5】 + 【OK】 .



Note: At the time, the controller can only be used to control this DVR and it is invalid to others.

- 5 Cancel match ID: Press following keys on controller gradually: **DEV】 + 【5】 + 【ESC】** to cancel the matched ID.

#### **5.5.1.1 Main display device**

Location: Device|Other Device| Main display device

Function: The DVR can only be adjusted at the selected display device while other device can be used for monitoring.



Step:

1. Select main monitor type:
2. Click "Apply" or "OK" to change output display device.

3. Confirm this operation at new display device in 15 seconds, or it will still use previous device.

Note: Press “F1”button at front panel to change output display device too.

## 6 Appendices

### 6.5 Calculate hard disk capacity

| Code rate          | Video file capacity<br>/hour |
|--------------------|------------------------------|
| Min 113kbps        | 51MB                         |
| Default<br>600kbps | 270MB                        |
| Max 1365kbps       | 614MB                        |

#### 6.5.1 Hard disk capacity convert

| capacity convert at<br>this DVR |                   | capacity convert at<br>operational system |                   |
|---------------------------------|-------------------|---|-------------------|
| B                               | 1 B = 8 b         | B   | 1 B = 8 b         |
| M                               | 1 MB = 1000<br>KB | M   | 1 MB = 1024<br>KB |
| G                               | 1 GB = 1000<br>MB | G   | 1 GB = 1024<br>MB |

|   |             |   |             |
|---|-------------|---|-------------|
| T | 1 TB = 1000 | T | 1 TB = 1024 |
| B | GB          | B | GB          |

**Note:** On capacity convert at this DVR, hard disk manufacturer must be the same one and both adopt 1GB=1000MB mode. It is not 1GB=1024MB mode which is used on operational system.

### 6.5.2 Required capacity for video recording.

1. The video file for one channel's image at each hour.

$$A = B \div 8 \div 1000 \times 3600$$

2. The video file for N channels' image at each day.

$$A = B \div 8 \div 1000 \times 3600 \times 24 \times N$$

3. Video file for N channels' image for D days

$$A = B \div 8 \div 1000 \times 3600 \times 24 \times D \times N$$

**Note:** A indicates the required hard disk capacity. N indicates channel's quantity. D indicates days for video recording.

### 5.2 3G Network card dial-up

|         | Number | User name | password |
|---------|--------|-----------|----------|
| Unicom  | *99#   |           |          |
| Telecom | #777   | card      | card     |

<The End>